

TRANSFORMATION 2.0

Investor Day 2023

Overview

Piyush <u>Gupta</u>
Chief Executive Officer

Our investment thesis

Diversified access to Asia's growth

Financial outperformance driven by digital transformation

Growth opportunities from early moves in Sustainability



Our investment thesis



Structural drivers of Asia's long term growth remain intact

Large Asian markets offer significant growth upside

Singapore, a bridge between East and West, beneficiary of growing regional trade



Our investment thesis

Growth opportunities from early moves in Sustainability

Annual sustainability banking revenue pool of >US\$30b in Asia through 2030¹

Transition pathways allow us to create innovative solutions for our clients

Sustainability-linked revenues quadrupled over the last three years to c. S\$300m

¹ McKinsey Global Banking Annual Review 2022: Banking on a Sustainable Path



Investor Day 2023

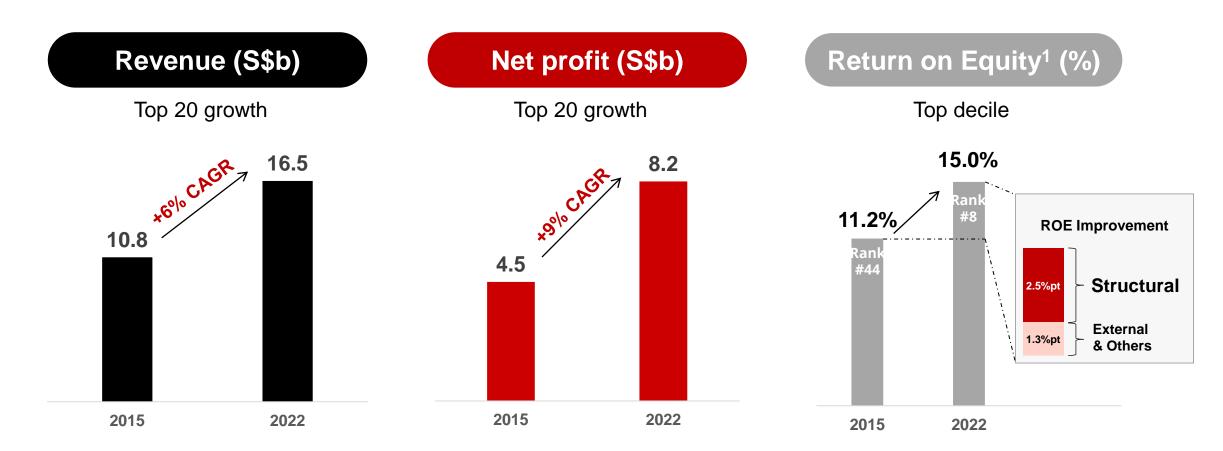
Diversified access to Asia's growth

Financial outperformance driven by digital transformation

Growth opportunities from early moves in Sustainability



Financial outperformance driven by digital transformation



¹ Global peer universe comprises the 100 largest banks by assets. Data as at 31 December 2022



What we have achieved since 2017....

Transforming the way we manage...

- Continued to create sustainable advantage with technology
- 2 Changed the way we work

3 Redesigned credit processes for scale and effectiveness

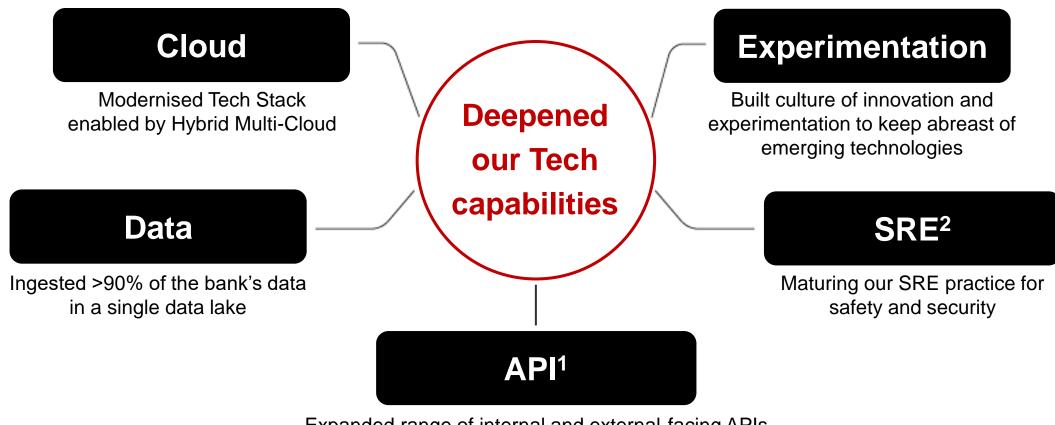
... leading to superior business outcomes

- **4** Delivered on our goals in Consumer & SME
- G Created outperformance in PB, GTS and T&M through digitalisation
- 6 Started scaling in growth markets



1. Continued to create sustainable advantage with technology

Multi-year journey of building our own technology DNA



Expanded range of internal and external-facing APIs

¹ Application Programming Interface / ² Site-Reliability Engineering



2. Changed the way we work

Breaking organisational silos, becoming data-driven and extending reach through partners

Managing through **Journeys**

Driving horizontal collaboration for efficiency & effectiveness



Industrialising AI to drive broad-based financial outcomes



Acquiring customers at scale through partnerships



3. Redesigned credit processes for scale and effectiveness

Driving scale and managing portfolio risk through Data and AI/ML



Growing in new segments and markets through data-driven underwriting



Enhancing
effectiveness of
portfolio
management with
early warnings and
triggers



4. Delivered on our goals in Consumer & SME

Income (S\$b)



Cost to Income (%)



Return on Equity (%)





Doubled digital share of customers to 60%

- Closed last mile gaps
- Further rationalised our distribution
- Broadened our product range
- Made digital marketing more effective
- Gained access to new market segments



5. Top four private bank in Asia¹

AUM Growth²

9% vs Asian Peers4

Income (S\$b)

1.1 2017 - 1.7 2022 Cost to Income (%)

46% vs Asian Average⁵

Return on Equity (%)

 $\begin{array}{c} 16 \\ 2017 \end{array} \longrightarrow \begin{array}{c} 30 \\ 2022 \end{array}$





- Sharpened phygital model to leverage RMs and technology
- Outperformed on RoAUM driven by enhanced client engagement

¹ 2022 APB PB AUM League Table / ² 2017-2022 / ³ AUM growth of High Net Worth Individuals including DBS PB, TPC and Treasures customers with AUM ≥ \$1.5m / ⁴ AUM growth of PB/HNW clients' of the following banks in Asian markets: UBS, Credit Suisse, HSBC, Morgan Stanley, Julius Baer, JP Morgan, Bank of Singapore, Goldman Sachs / ⁵ McKinsey Asia Private Banking Survey 2022



5. Scaled our Global Transaction Services franchise

1.9 3.3 2017 2022 Cost to Income (%)

38
2017 → 32
2022

Return on Equity (%)

18
2017
38
2022



- Improved market access and capacity, and reduced latency
- Capitalised on shift from offline-to-online commerce through high-volume, low-value, real-time payments
- Captured supply chain shifts through API capabilities

5. Digitised Treasury & Markets









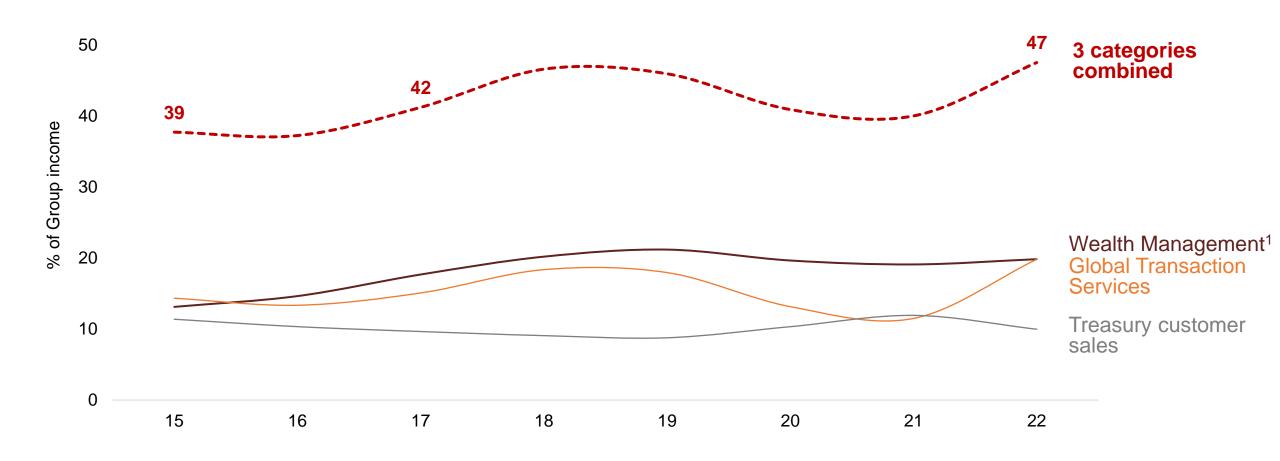


- Enabled pricing and structuring at scale and speed
- Implemented electronic distribution within and outside of the bank
- Improved trading efficiency by enhancing risk warehousing

¹ Figures exclude revenue from debt capital markets



5. Increasing contribution from capital-light, high-return businesses

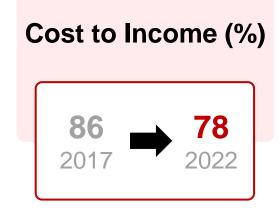


¹ Wealth management income comprising Treasures, TPC and PB



6. Scaling our India franchise









- Expanded network to >500 branches
- Full-service platform, similar to any local bank
- Leveraging digital capabilities and ecosystem partnerships to capture high-growth Consumer and SME segments

Agenda

Overview

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Group Financials

Closing Remarks

Enablers

Technology Capabilities

Powering the future of banking with Data & Al

New Way of Working

Streamlining customer & employee journeys via workflows & workbenches

Credit Risk Management

Businesses & growth markets

DBS

Consumer & SME

Leveraging open banking to democratise wealth solutions Private Banking

GTS

Enabling growth for businesses through digital transformation

T&M

Transforming personalised services-at-scale with Digimarkets

India

Presentation

Showcases





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Group Financials

Chng Sok Hui
Chief Financial Officer

Well-positioned for success with a strong balance sheet, digital capabilities and momentum from growth markets

1 2015 to 2022

Proven results from digital transformation

ROE structurally improved by 2.5% points

Outlook

Well-positioned for future with strong franchise and fortress balance sheet

Earnings of \$10b+ and ROE of 15-17% in the medium term¹

Drivers:

- ✓ Strong balance sheet and capital; well-positioned to capture opportunities
- ✓ Formidable tech capabilities anchoring digital transformation
- ✓ New way of working and new risk management capabilities enabling effective scaling while managing risks
- ✓ Momentum from transformation initiatives across businesses and in growth markets



Successful digital transformation since 2015 led to higher ROE and better shareholder returns

ROE in top decile of world's 100 largest banks



#4 among global peers in total shareholder returns since end-2015

Annualised total shareholder returns 2015-2022 (%)

25

15

5

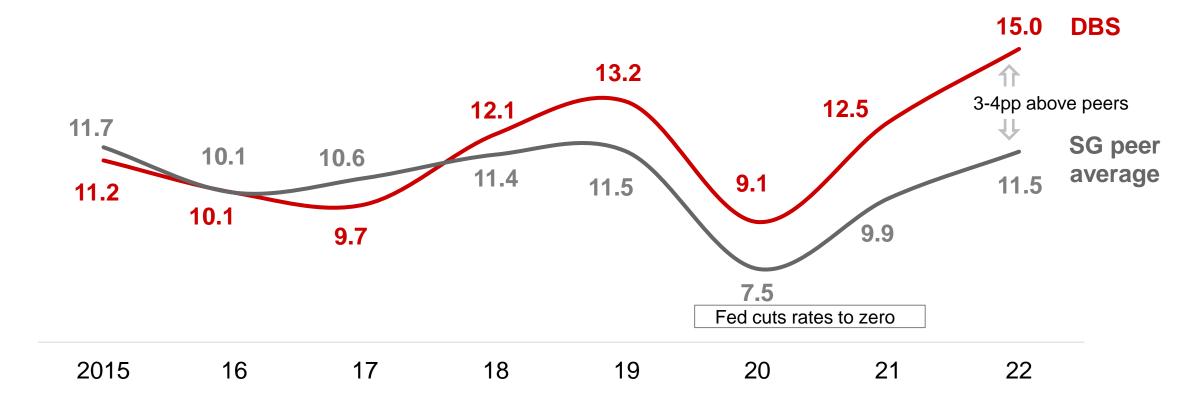
DBS 16% annualised TSR,

4th among global peers



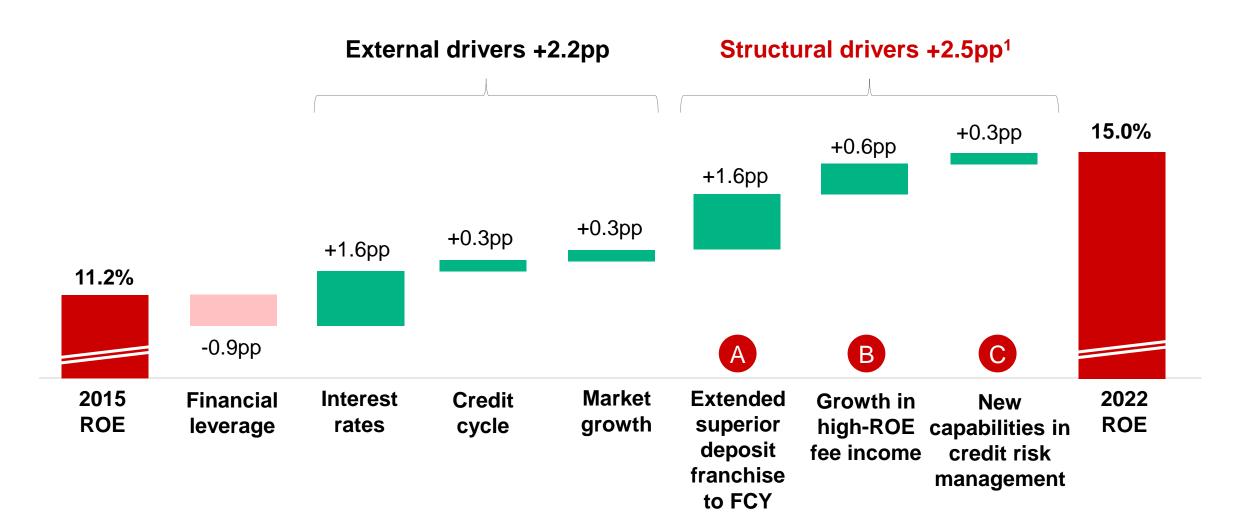
Transformation has widened structural ROE advantage

ROE (%)





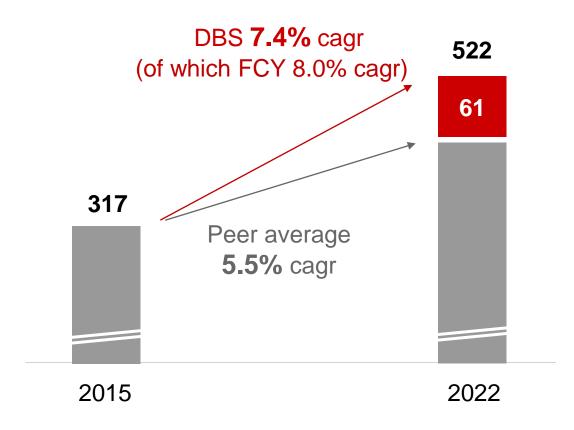
2015 to 2022: Group ROE structurally improved by 2.5pp





A. Extended superior deposit franchise to FCY

Deposits (quarterly average, \$b)



Digital capabilities boosted deposit franchise:

- Higher SGD savings market share at 53%¹
- FCY CASA ratio up 19pp to 54%

Despite higher FCY deposits, deposit beta (29%²) remained lower than local peers (average 34%) and major US banks (average 43%)

ROE impact +1.6pp

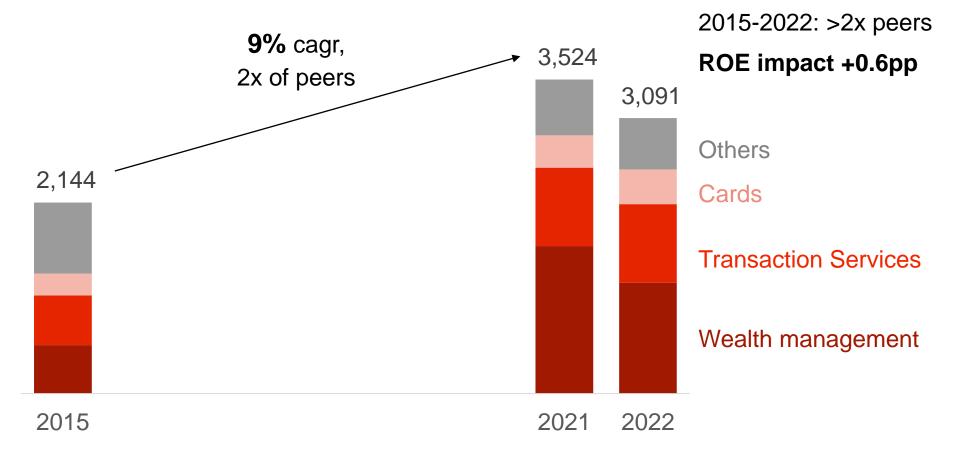


^{1.} Quarterly average for 2022 vs 2015. Market share was 54% in Apr 2023

^{2.} Between 2H22 and 2H21 which saw a sharp rise in interest rates

B. Growth in high-ROE fee income outpacing peers

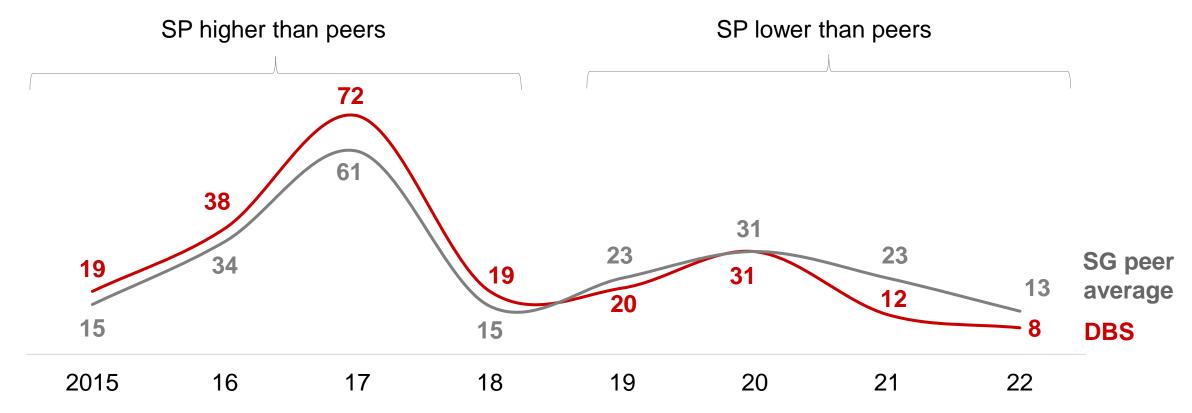
Net fee income (\$m)





C. New capabilities in credit risk management driving structurally lower allowances

SP / loans (bp)



ROE impact of structurally lower allowances: +0.3pp



Outlook: Near-term fundamentals sound

2023 ROE likely to be above 17%

Base case

- Full-year **NIM** at 2.05-2.10%
- Fee income growth of high-single digit
- Cost-income ratio below 40%
- **SP / loans** expected at 10-15bp

Bank will comfortably weather a recession

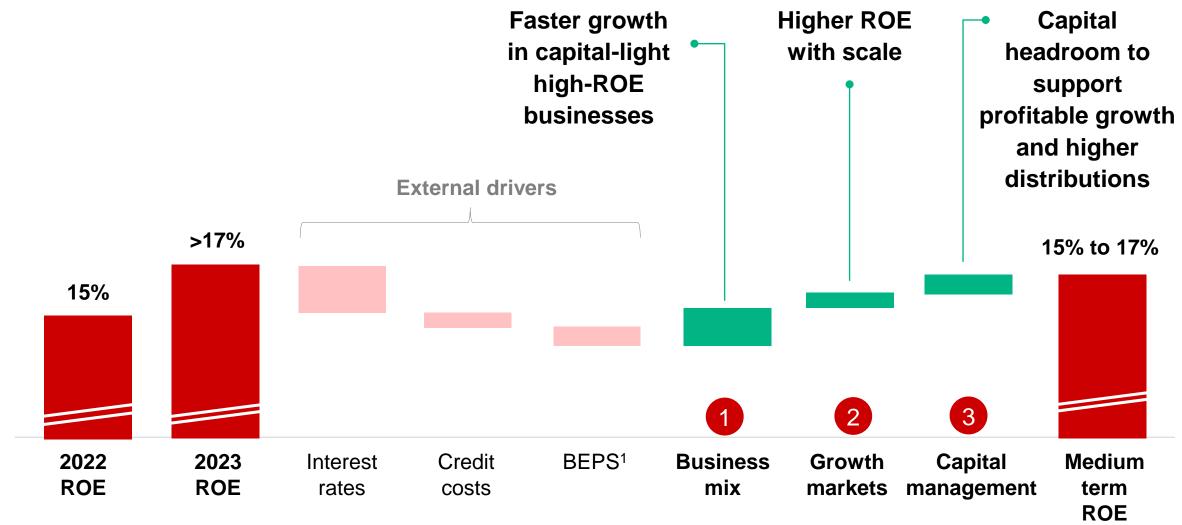
• Stress tested portfolio, asset quality to remain resilient

Stress scenario

- **Substantial allowance reserves**, with \$3.8b GP buffer (including \$2b of overlays). NPA coverage at 127% and at 229% after including collateral
- Current **CET-1** of 14.1% comfortably above guided range of 12.5%-13.5%. Capital buffer increases during the Basel IV transition period
- Ample **liquidity** to support business operations even in stressed funding conditions



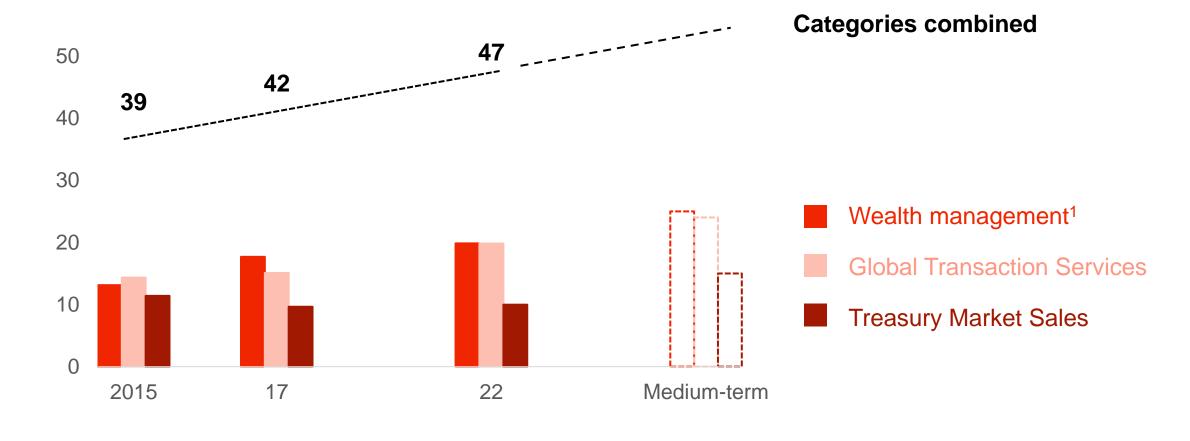
Medium-term ROE of 15-17% and CET-1 at 12.5-13.5%





1. Faster growth in capital-light high-ROE businesses

Income (as % of group)





2. Increasing scale in growth markets

Business model in place to drive scale in high growth markets:

- Digital ecosystem led customer acquisition and engagement
- Al/ML-led credit origination and portfolio management capabilities
- Building local depth via 'phygital' model

Growth market net profit to triple and ROE to double in medium term

Target high potential opportunities in growth markets	Forecasted market revenues ¹ India, Indonesia, China Taiwan	
	2027F US\$b	Cagr 2022-27
Transaction banking	1,520	7.4%
Wealth management	633	7.9%
SME lending	417	7.3%
Unsecured retail lending	263	9.8%

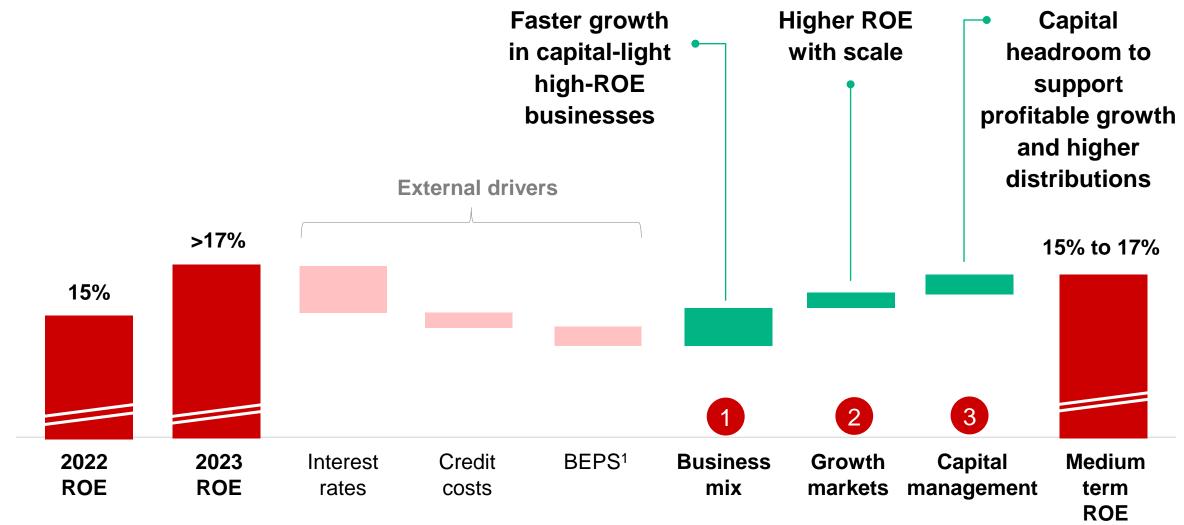


3. Capital headroom to support profitable growth and higher distributions

- Ordinary dividend lifted by 24 cents to \$1.68 in 2023
- Baseline: +24 cents per year sustainable in the medium term, barring unforeseen circumstances
- Further upside of \$3b based on CET-1 operating range of 12.5-13.5%, distribution could be in further ordinary dividend step-up, special dividend or buyback. Pace dependent on business conditions and macroeconomic outlook

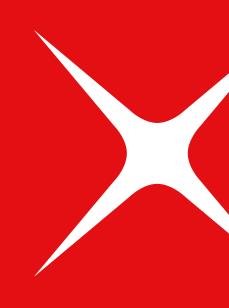


Medium-term ROE of 15-17% and CET-1 at 12.5-13.5%





APPENDIX





Estimation of ROE impact from structural drivers

Drivers	Approach
Structural	
(A) Extended superior deposit franchise to FCY	 (A1) Excess deposit volume growth over peers from 2015-2022 (+\$61b) multiplied by the net return on low risk liquid assets (A2) Deposits growth at same rate as peers (+\$144b) multiplied by benefit from lower deposit beta than peers (-16bp deposit cost)
(B) Growth in fee-based high ROE businesses	Excess fee income growth over peers from 2015-2022 (+\$0.7b)
(C) New capabilities in credit risk management	Based on an estimated improvement in credit costs of 5bp of loans due to better credit risk management
Others	
Financial leverage	ROE adjusted for higher core capital between 2015 (12.4%) and 2022 (14.6%) and other comprehensive income





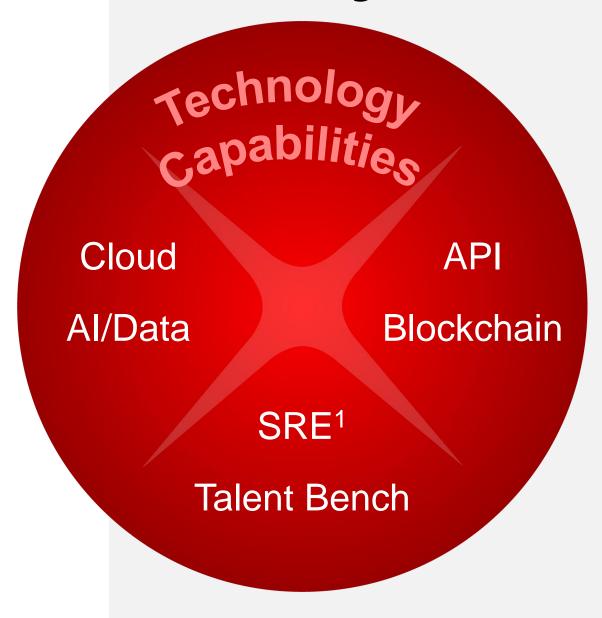
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Tech Capabilities

Jimmy Ng

Group CIO & Group Head, Technology & Operations

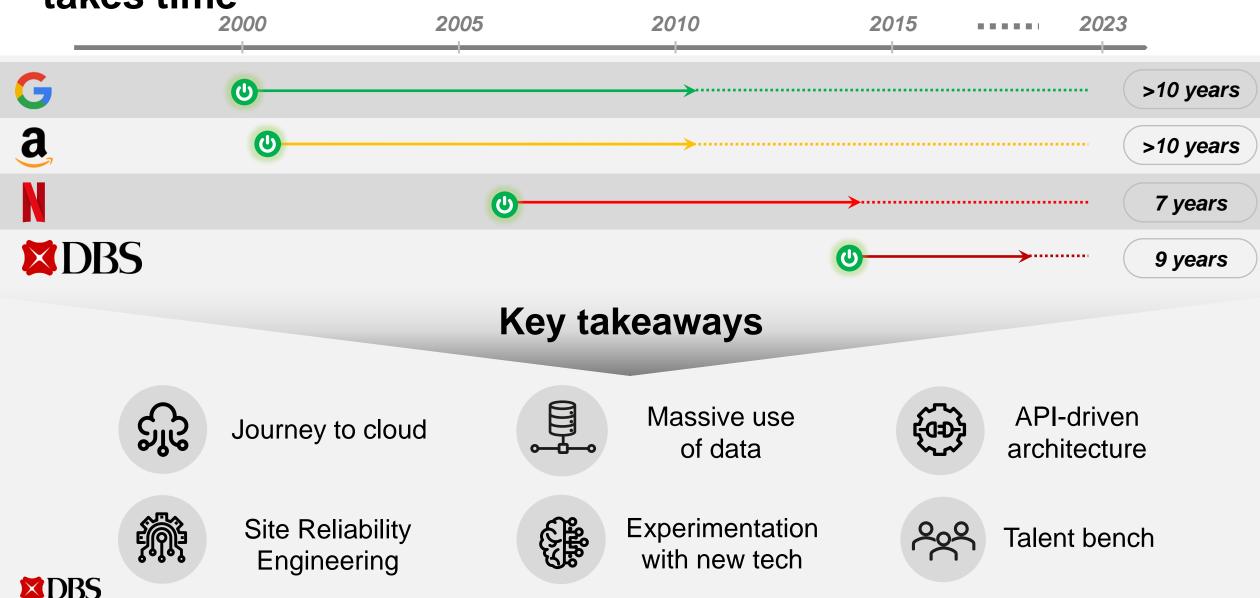
Unlocking our sustainable advantage





Site Reliability Engineering

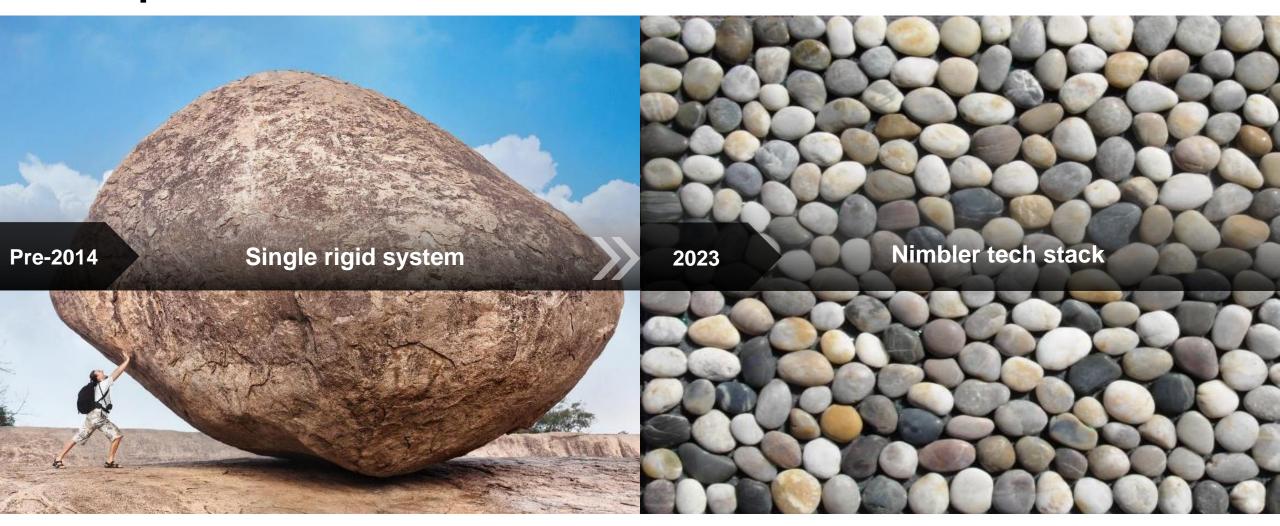
Rome was not built in a day. Transforming tech capabilities takes time



GANDÉLE



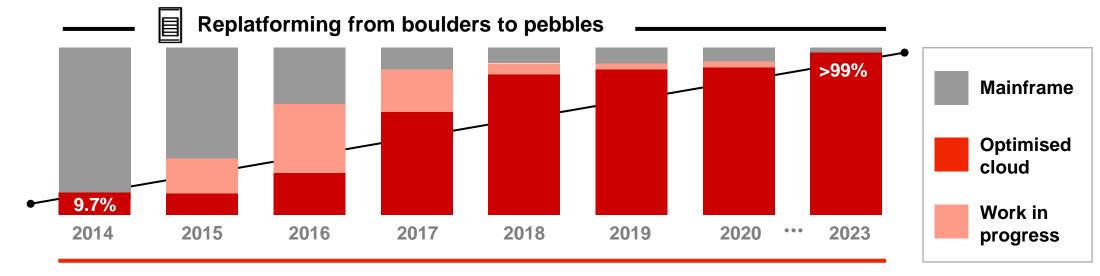
Our digital transformation journey: turning boulders into pebbles





Our digital transformation journey: turning boulders into pebbles

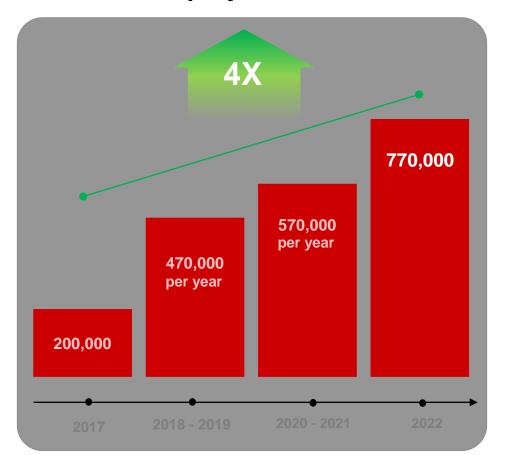




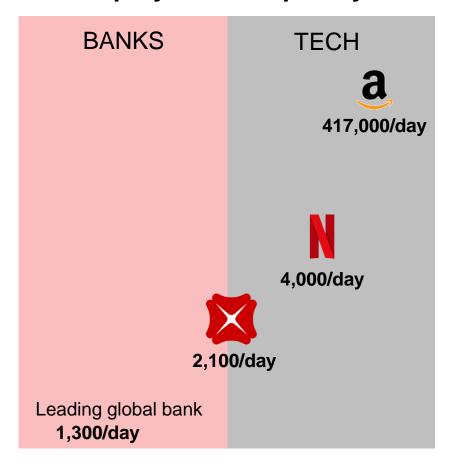


Our modern tech stack enables scale and agility

Total deployment releases



Deployment frequency







Our hybrid multi-cloud strategy gives us efficiency and flexibility

Private Cloud Hybrid, Multi-cloud Public Cloud



In-house Infrastructure as a Service (laaS)

Efficiency achieved **below** price point of AWS



Workload portability & surge capacity

On-demand computing power



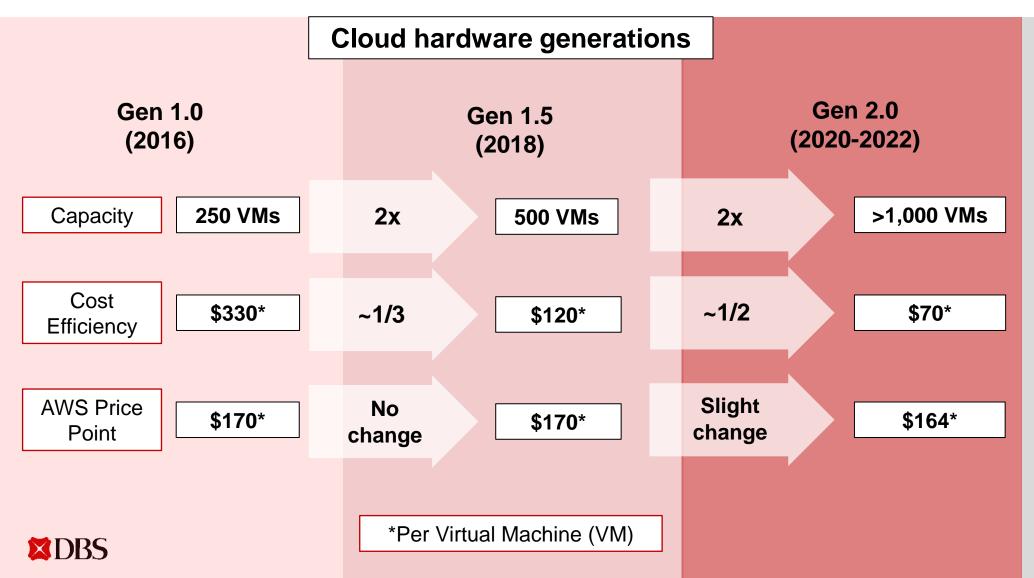
Advanced capabilities

Cutting-edge technologies for advanced analytics and insights





Cost-efficient private cloud rivals major service providers

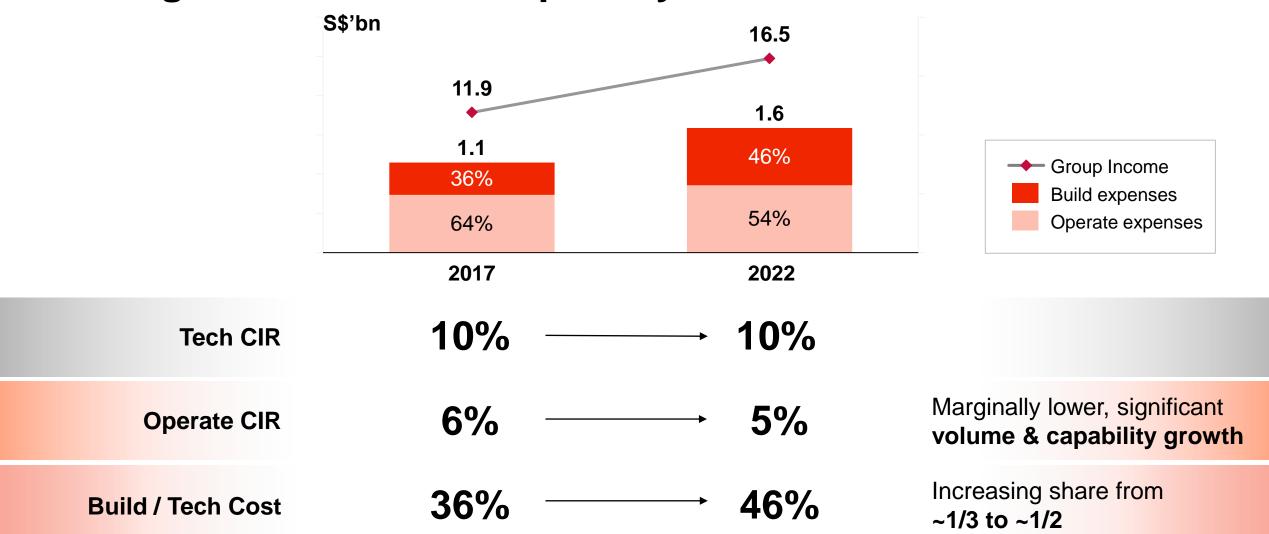


Benefits

- Downsized data centre by 75%
- Created 10x growth capacity

Operate is efficiently managed, enabling us to invest for capability







We have built key capabilities in ADA, our data platform





DATA ACQUISITION

10+ silos to 1 platform

Data ingestion at scale



DATA ACCESS

Proprietary integrated security framework

Instant access to permitted data



DATA DISCOVERY

Metadata and data lineage

Understand data in minutes



MODEL DEVELOPMENT

CPU and GPU farms on premises and in the cloud

On demand capacity



MODEL DEPLOYMENT

State-of-the-art tools for visualisation and modelling

State-of-the-art tools

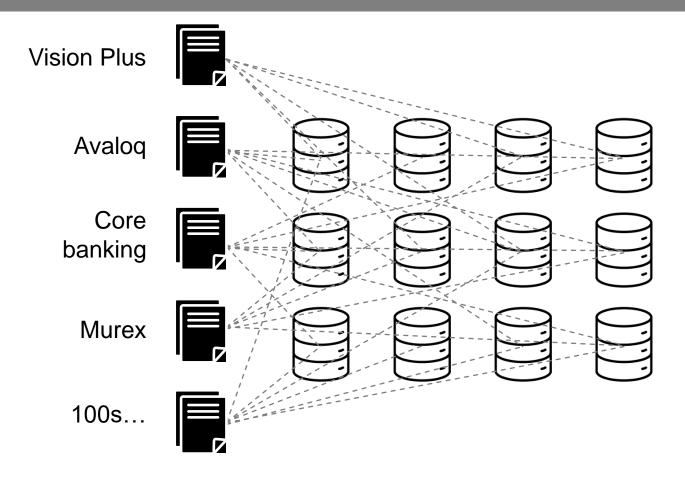


Our data platform transforms the bank's data into a competitive differentiator





Consolidates data to a single source of truth



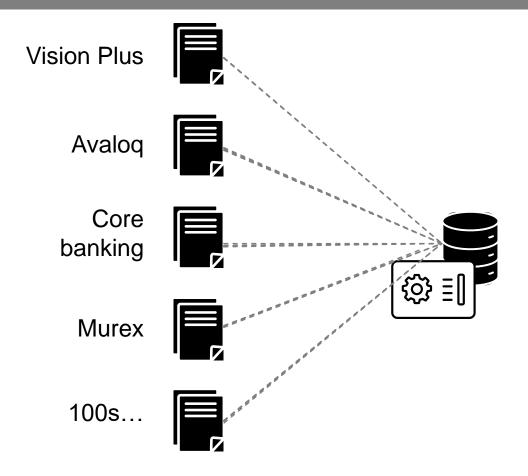


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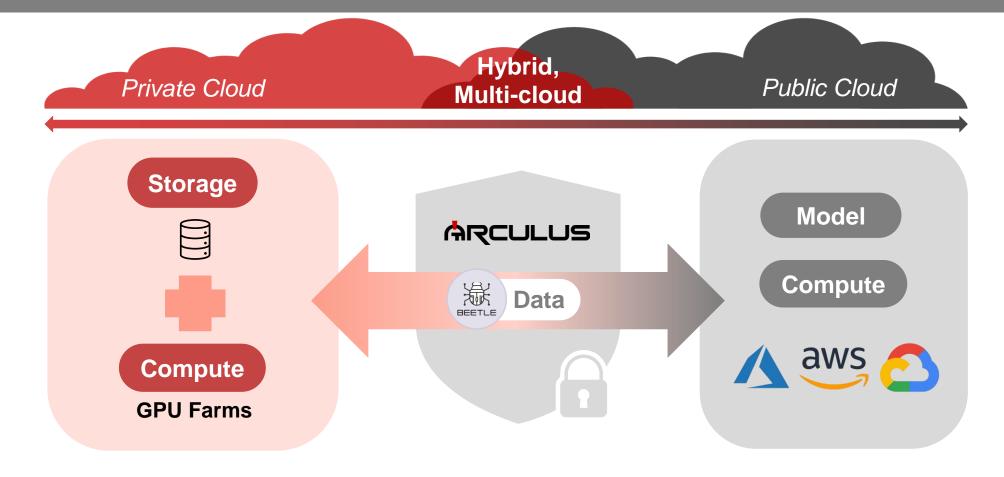


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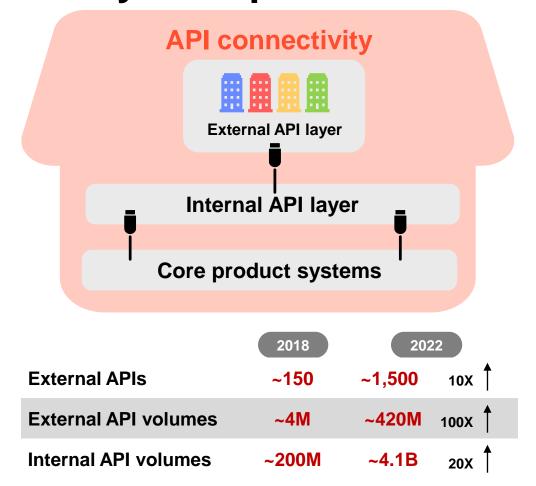
Enabling on-demand capacity

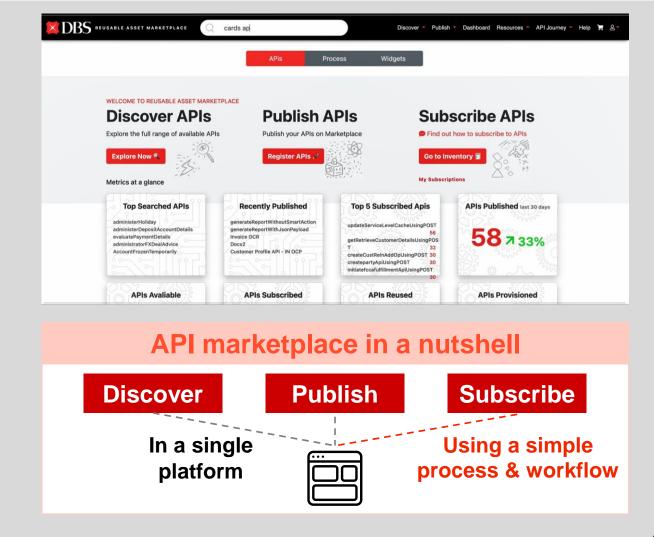






API-driven architecture increases connectivity with ecosystem partners

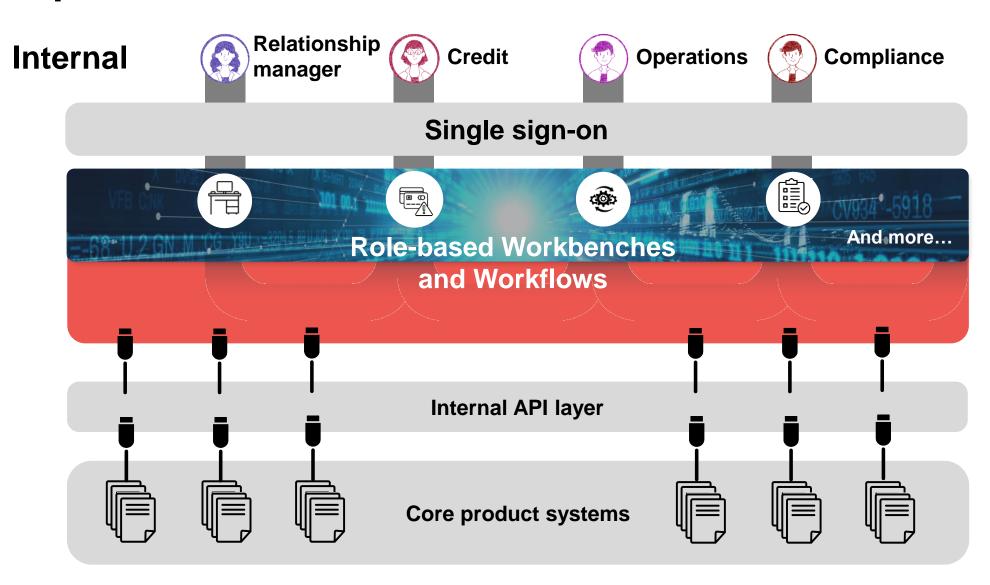






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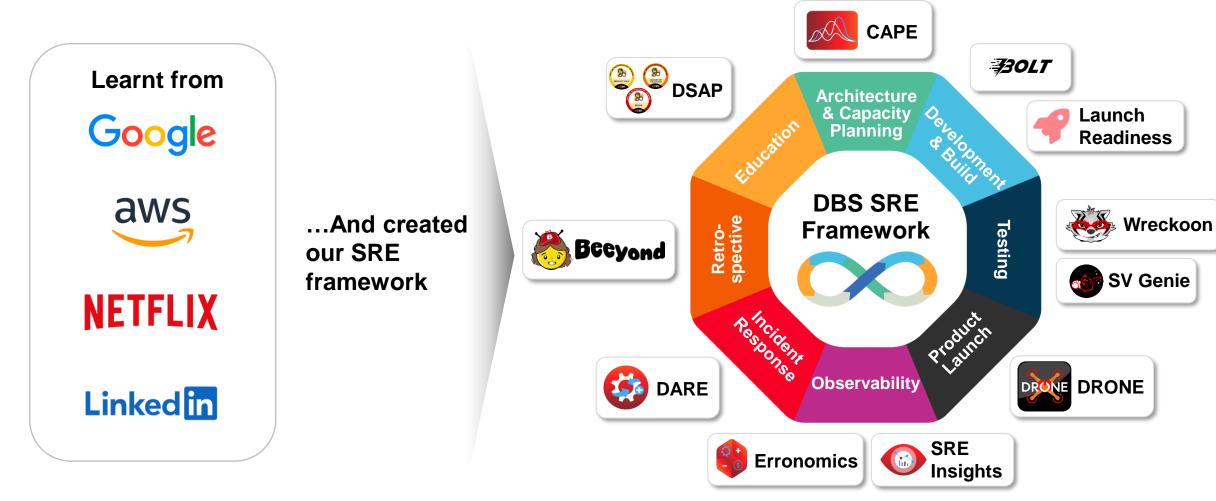
Internal APIs also enabled us to develop our Workflows and Workbenches







Maturing our Site Reliability Engineering (SRE) practice to scale safely and securely





Experiment with new technologies to create business opportunities

Blockchain / smart contract technology foundational capabilities













Tokenisation, wallet management

Compliance, legal & surveillance

Automated market maker & liquidity pool management

Operational efficiency for both public / permissioned chain

Node-as-a-service, cross-chain interoperability

Origination & issuance



Tokenised digital capital market issuance



Security Token Offering origination & tokenisation

Trading & execution



Tokenised carbon trading exchange



Security Token Offering trading & execution



DeFi trading

Clearing, settlement, & custody



Digital asset custody & servicing



Next-gen clearing & settlement



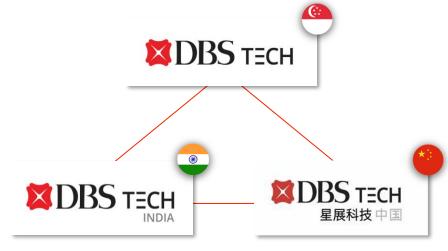
Programmable money



Our people – a decade-long transformation

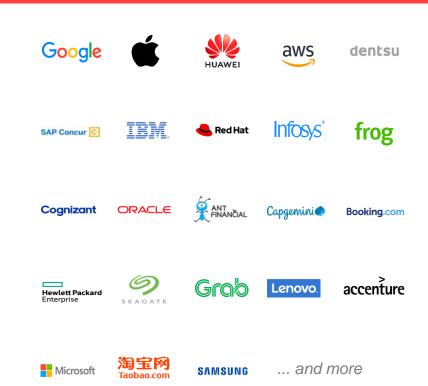
Diversified our global talent pool

12,000 technologists



*To be established in mid-2024

... hiring from big tech, design firms





More technologists than bankers – Having a breadth of talents and skill sets



Data

Analytics

- Data Scientist
- Big Data Analyst
- Quant Dev/ Modeller
- Reporting Specialist

Data Technology

- Data Engineer
- Machine Learning Engineer
- Data Architect





Tech

- Full Stack & Mobile Web Developer
- DevOps Engineer
- Application Architect
- Cloud, Infra, SRE Engineer
- Cyber & Application Security
- 5G, IoT, Blockchain





Design

- Digital Product Designer
- Design Researcher
- COE/System Designer
- UX Writer/Engineer

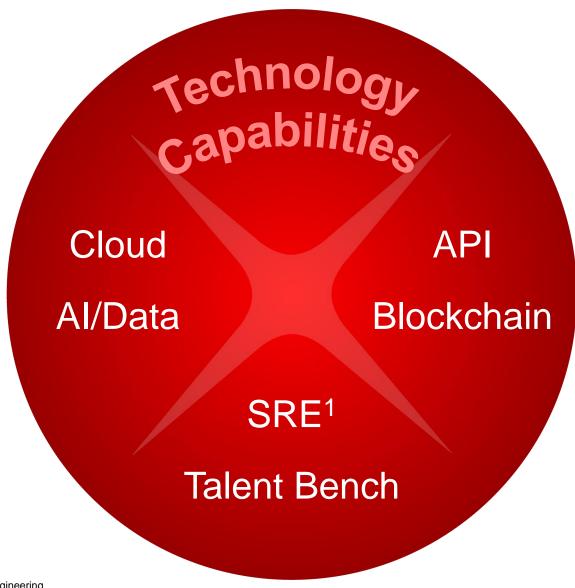


Growing our own timber

Attracting >1,000 young talents from the polytechnics and the universities



Unlocking our sustainable advantage





1. Site Reliability Engineering

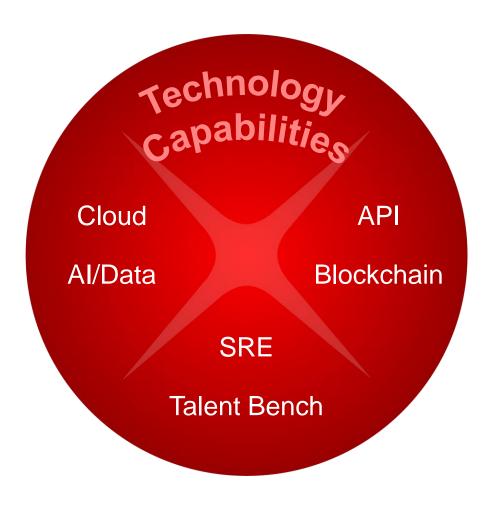


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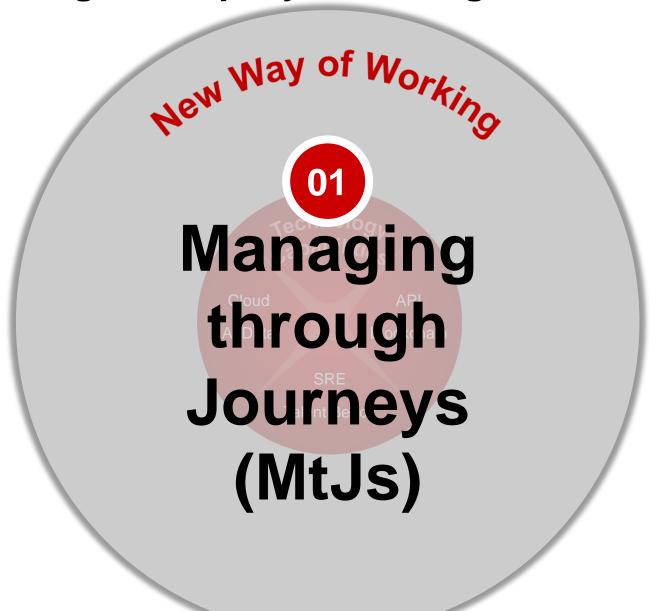
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New Way of Working

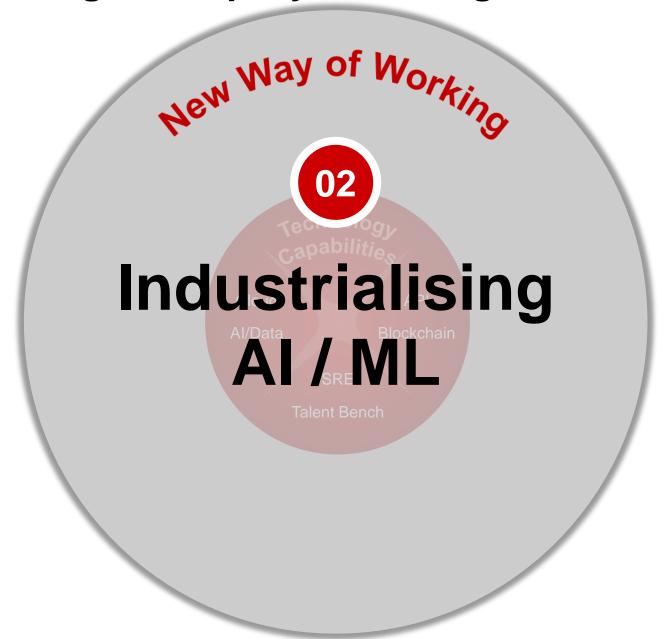
Han Kwee Juan Country Head, Singapore



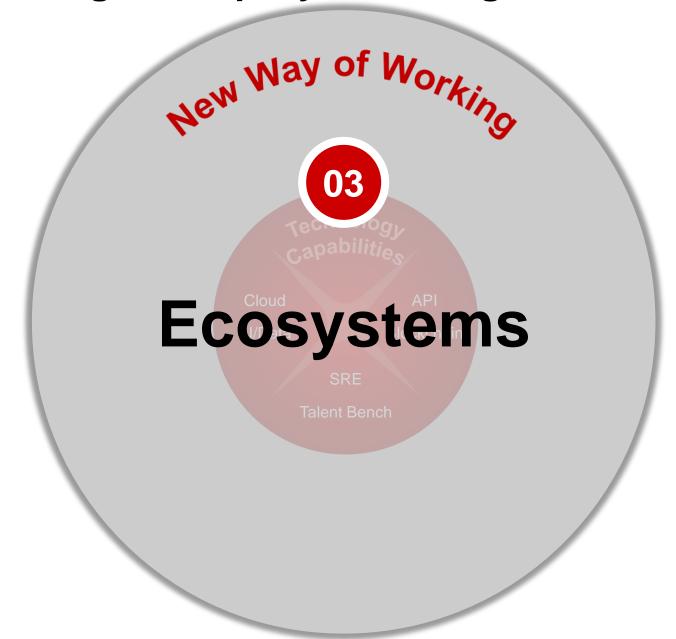




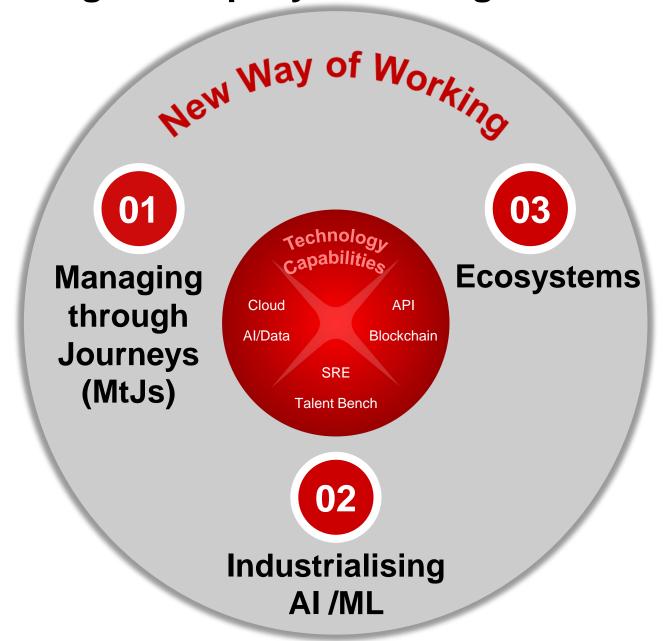










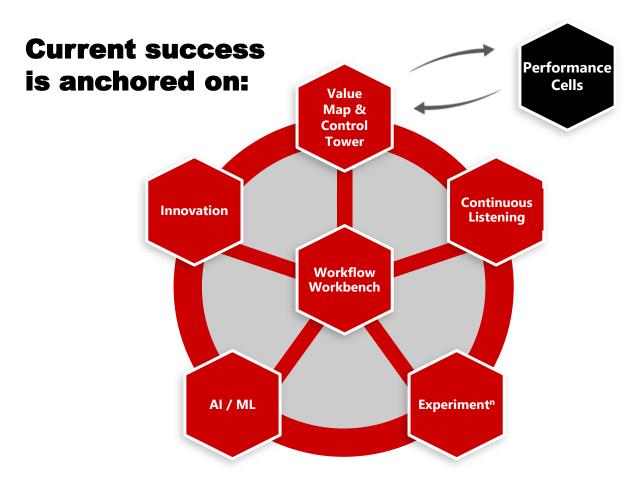




01

Managing through Journeys (MtJs)

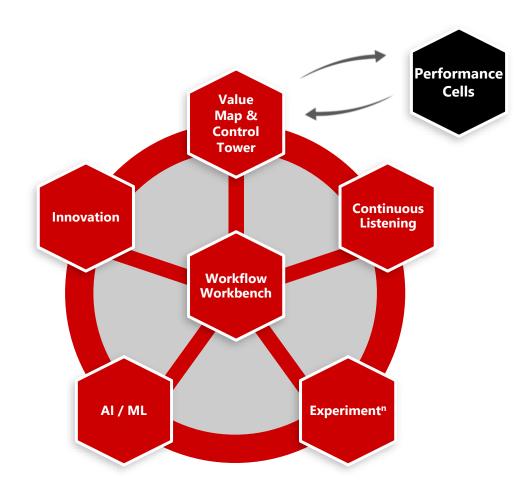
- Multi-functional teams working as one to deliver differentiated customer experience
- Shift from a vertical siloed organisation into a horizontal organisation
- Achieve Agile at Scale
- Drive revenue growth and increase productivity





01

MtJs enable speed and agility

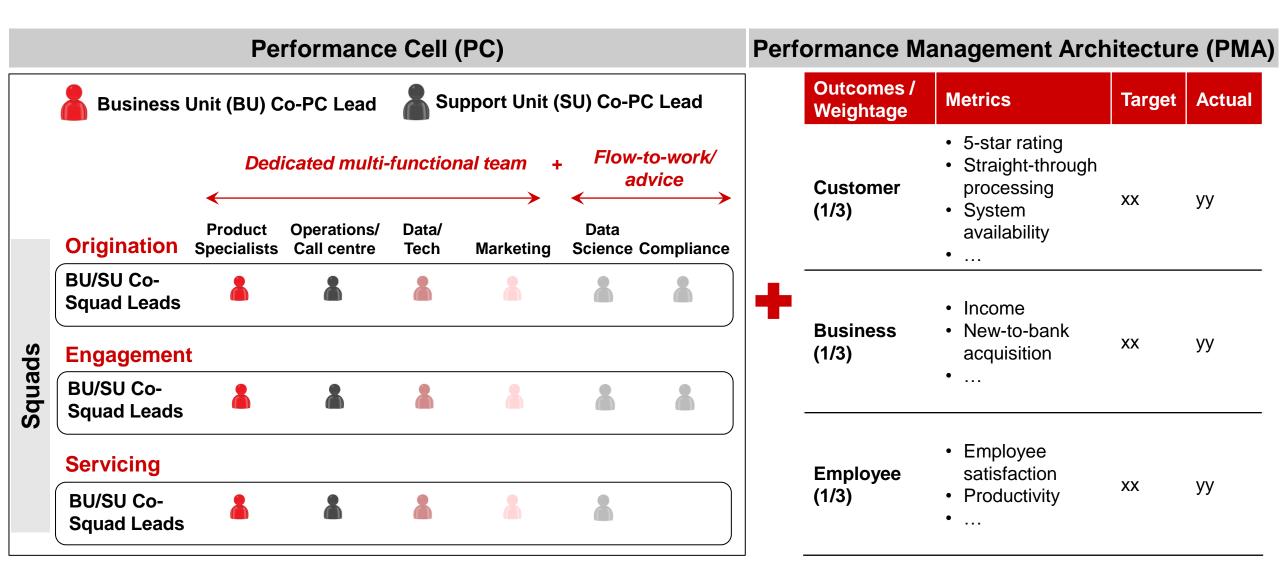


Continuous and reinforcing flywheel

- Performance Cells (PC) are cross-functional teams organised horizontally and aligned on common KPIs
- Workflow Workbench enables orchestration of work and ease of collaboration within the PC
- Value Maps establish relationships between defined levers, drivers and outcomes for customer journeys
- Control Tower provides real time data to drive timely interventions
- Continuous Listening employs behavioural science techniques in customer feedback sessions
- Al / ML and Experimentation enable the discovery and delivery of product and service Innovation



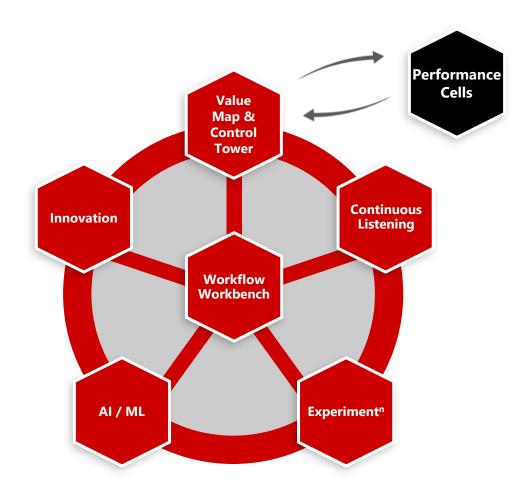
Performance Cells – organised horizontally + shared KPIs





01

MtJs enable speed and agility



Continuous and reinforcing flywheel

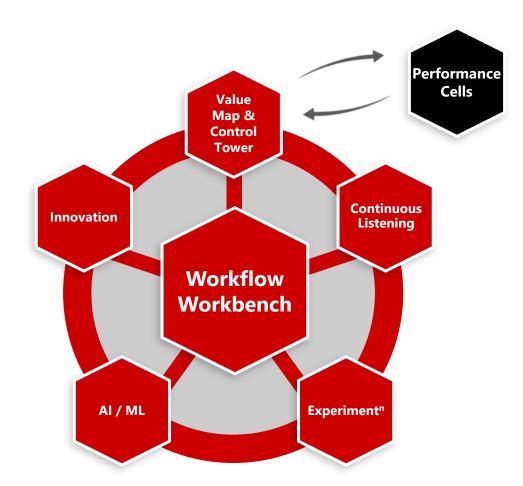
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Orchestrating work and ease of collaboration

01

MtJs enable speed and agility



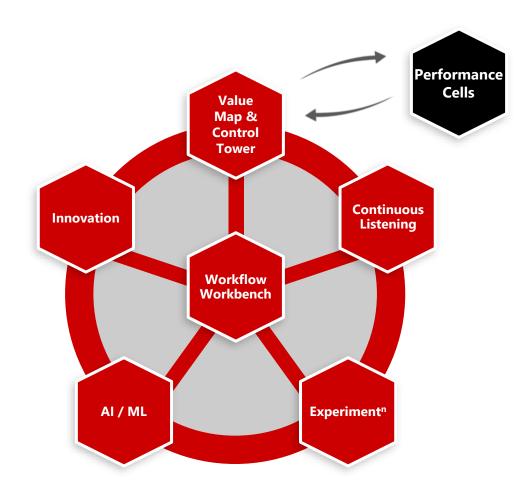
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MtJs enable speed and agility



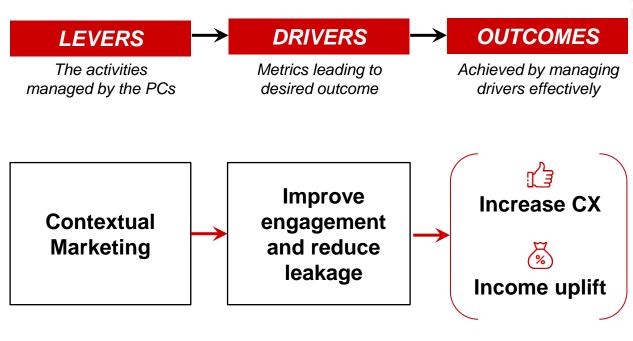
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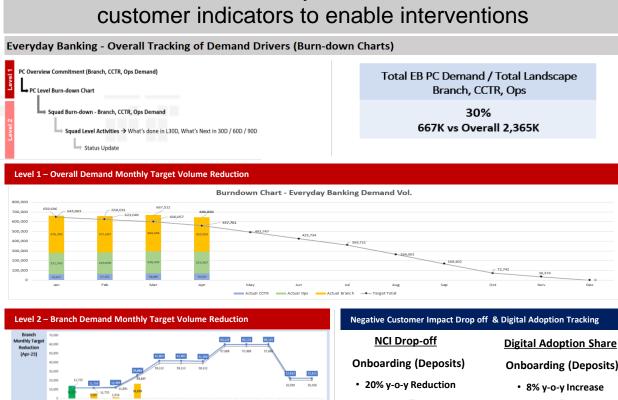


Value Maps & Control Towers provide insights and drive outcomes

Value Maps establish scientific relationships between defined levers, drivers and outcomes



Control Towers reflect timely data on business drivers and customer indicators to enable interventions



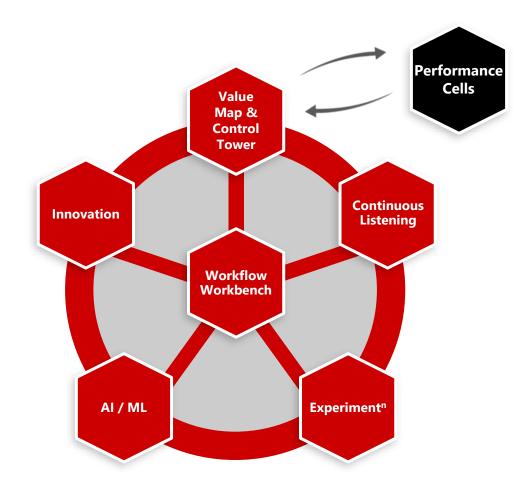






01

MtJs enable speed and agility



Continuous and reinforcing flywheel

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Continuous Listening & Experimentation enable Innovation at scale

Continuous Listening

- A ritual of regular interviews with customers on their experiences with DBS
- PCs are trained in behavioural science and observation techniques
- 346 immersions conducted in 2022

1-to-1 customer interviews



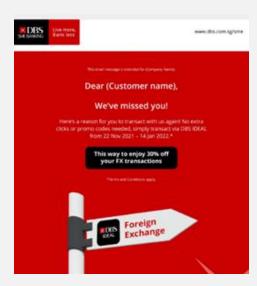
Interview: Interacting with customer through virtual channel (on DBS premise)



Observation room:
PCs observe the interview through a live-feed

Experimentation

- Leveraging Data and AI/ML models to rapidly test and sharpen solutions
- Scaled to 1600+ experiments in 2022



Experiments: FX Pricing 9% to 12% lift

TT Pricing 0% to 5% lift

Emotive Message 47% to 100% lift

A/B Testing: We learnt that **emotive messaging** is more effective than pricing discounts

Customer Satisfaction improved from 4.2 to 4.46

Innovation

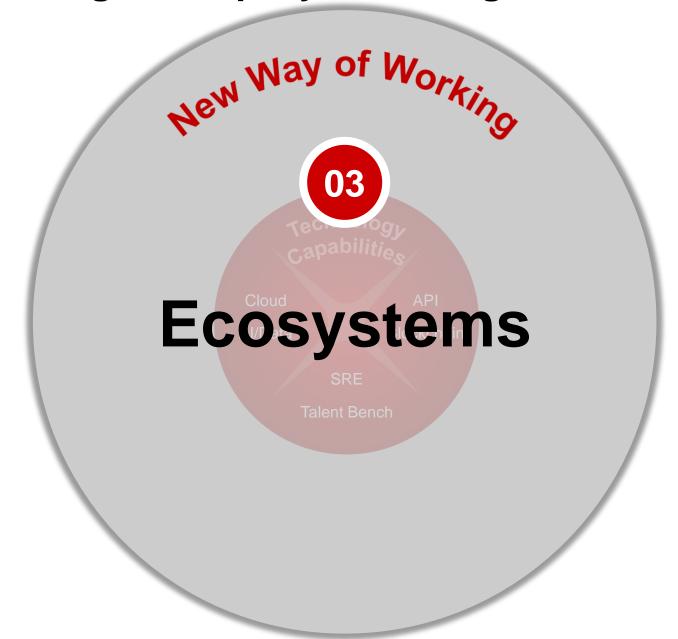
- Innovation is embedded and accelerated within PCs
- >600 innovation ideas generated,
 50 ideas being validated for acceleration



Secure FX product to be launched in SG, to fulfill hedging needs of SME clients



Pay & Transfer soft launched on Card+ app in HK to pay small merchants, P2P transfer, etc.





02

Industrialising AI/ML across the bank

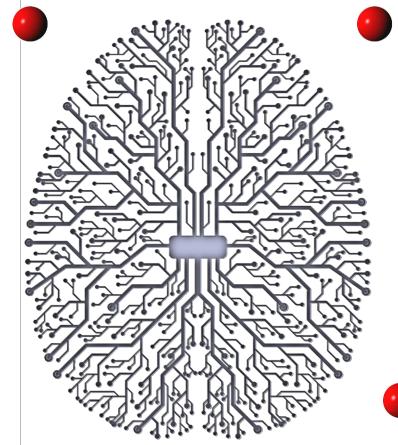
Consumer BankingEveryday Banking
Wealth Management



SME Lending Early Warning Credit for Large Corporates

Treasury & Markets
Algo Trading & Sales

Always On Audit Audit Report Generation



Finance
Outlier detection
Financial forecasting

Human Resources
Recruitment
Career Development

Operations
Demand Management

Risk Credit, Capital Adequacy, Fraud

>600 Models, 300+ use cases, \$178m economic value in 2022

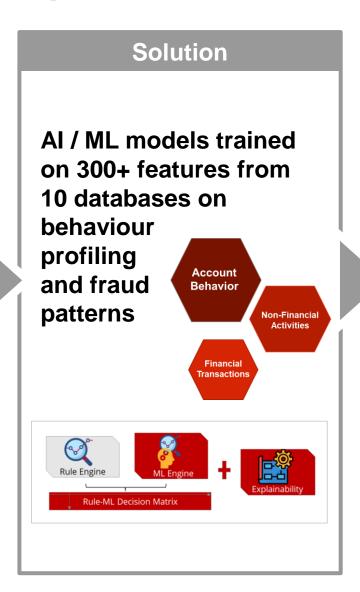


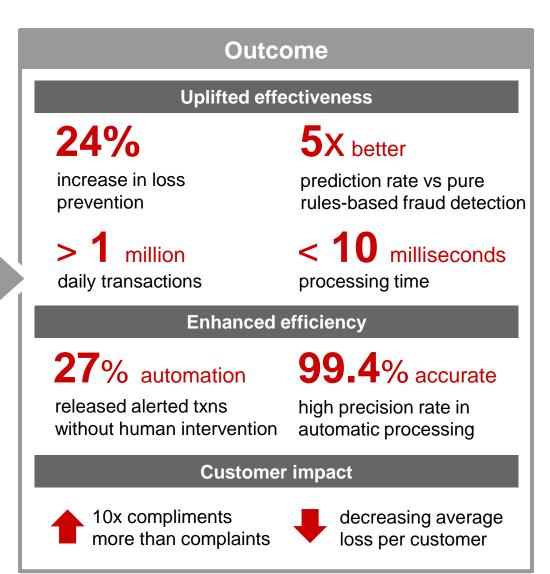
Digital payment fraud prevention

Background

- Increased frequency of scams against customers' accounts
- Recovering money is often difficult

Real-time fraud prevention is critical





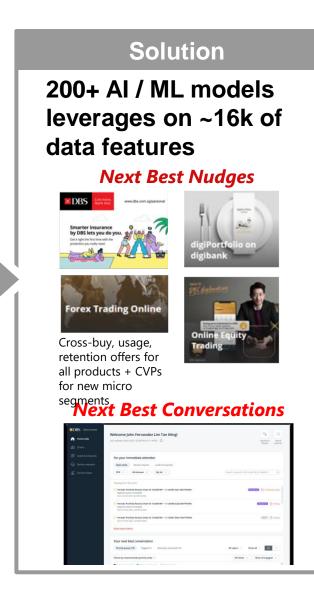


One of the first in the industry to do at scale

Driving economic value in CBG through cognitive banking

Background

- Customers wanted to be engaged more effectively with relevant content for their needs
- RMs needed a method to prioritise which customers required advisory and on what topic



Outcome

2x Economic value generated year-on-year

\$95.5m

economic value generated in 2022

\$200m

economic value targeted in 2023

Increased customer engagement with relevancy

6 markets

launched consistent engagement approach

7.5m

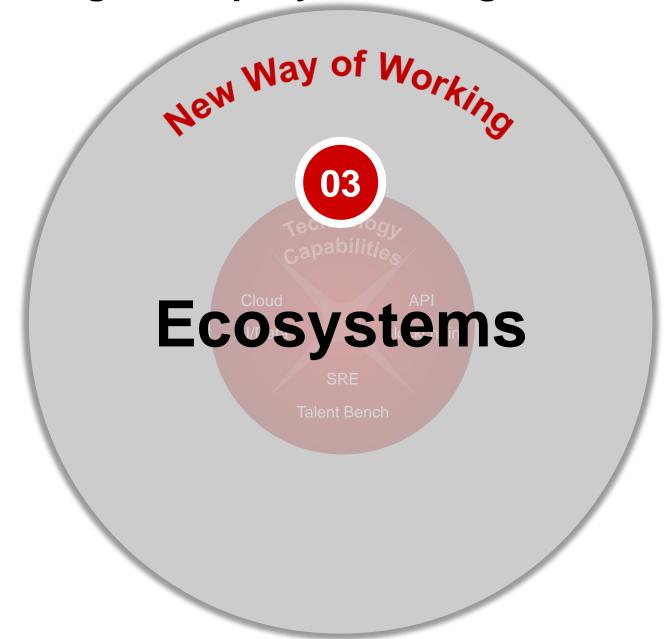
customers engaged

344m

nudges sent



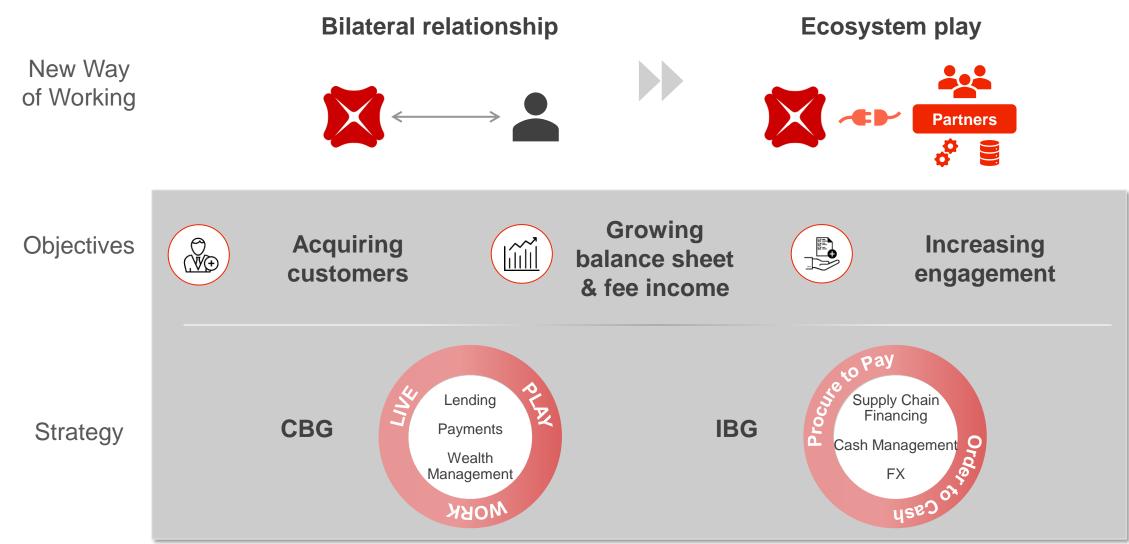
Technology is leveraged uniquely to scale growth







Scaling ecosystem partnerships





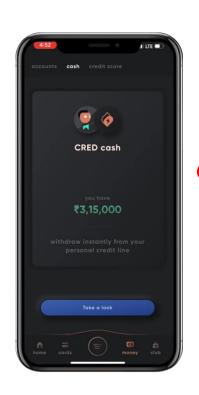
Consumer finance partnerships







CRED A leading payment platform in India with over 11 million credit card customers



Pre-approved loan shown to customers

Customer applies for loan & receives confirmation

Loan disbursed to designated accounts

Customer repays the loan





sources leveraged

for credit scoring

KYC / AML / fraud check powered by AI/ML

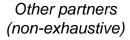


Funded within seconds enabled by API



Data collected for risk monitoring















Supply chain financing partnerships







A leading logistics platform in Greater China; part of JD.com



1

Target merchants applies for financing

2

Merchant receives confirmation and opens account with DBS

3

Merchant requests for drawdown and account gets funded

4

Merchant repays /
draws down
the loan as needed







Q

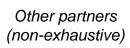
Alternative data & Al/ML leveraged for merchant selection & credit scoring

KYC conducted virtually

Funded within minutes enabled by API

Data collected for risk monitoring & cross-sell







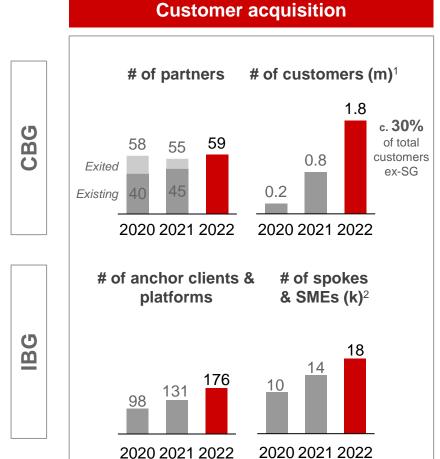


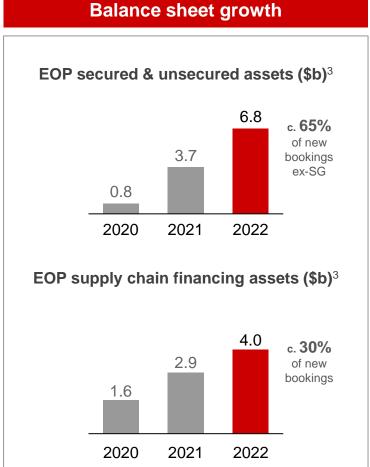


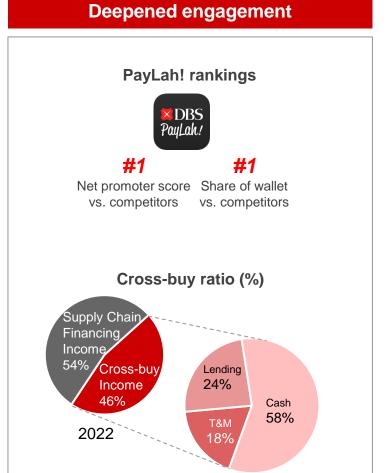




Value captured from ecosystems









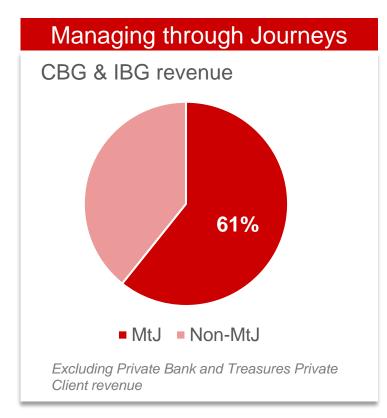
Footnote:

(1) No. of EOP customers from Ecosystems (excluding Singapore)

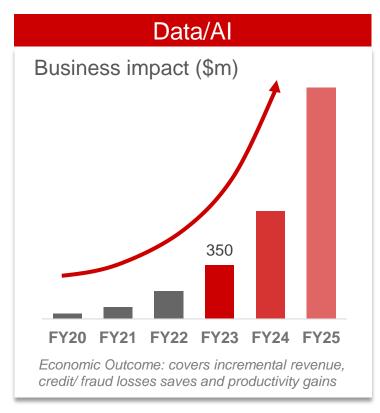
(2) No. of EOP Supply Chain Financing spokes & SME customers from Supply Chain and Accounting Platforms

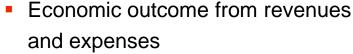
(3) Based on constant currency terms; % contribution to new volume booked in FY22 for selective products with Ecosystem lending presence

Looking ahead...

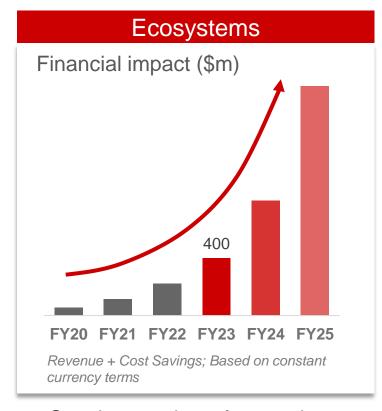


- 69 MtJs across Consumer and Institutional Banking
- 6 markets, >6,000 staff
- Covering S\$7.9b revenue





- Pervasive across the bank
- Expertise to leverage on new Al technology



- Growing number of strategic partnerships
- Embed more products into new Ecosystems
- Significant revenue contribution in growth markets





Investor Day 2023

Credit Risk Management

Soh Kian Tiong Chief Risk Officer

We have reimagined our credit process to drive scale and effectiveness

PROCESS









Portfolio

Portfolio management

ENABLERS



Cloud-native architecture



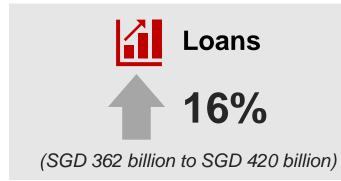
Non-traditional data



AI/ ML

OUTCOMES





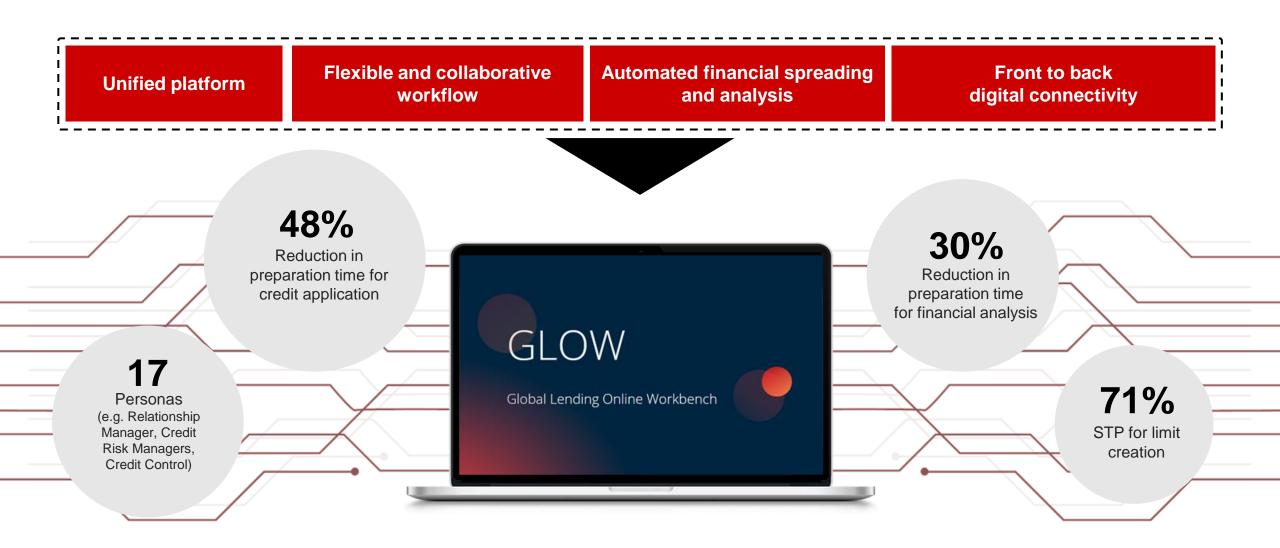








New tech architecture yields efficiencies at scale

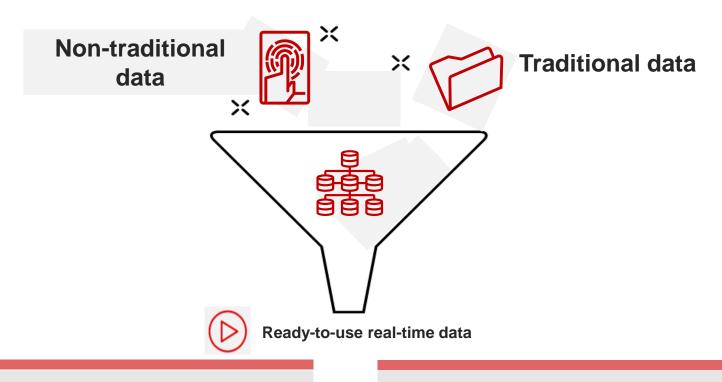








Catalysing origination and portfolio management with data





Origination

- Underwrite new segments/ markets
- Strengthen fraud detection



Portfolio management

 Deploy advanced analytics to drive early warning







At scale new origination powered by data and analytics

New Markets



Customers with inadequate traditional credit data

- Lack of credit history but with rich digital footprint
- Untimely financial information
- New economy workers

Data



Traditional

- Financials
- Payslips
- Credit bureaus
- Tax information



Non-traditional + real-time

- Bank transaction
- Buyer behaviour
- Lifestyle information
- Supply chain transaction
- Inventory information

Underwriting Model



Digital credit scoring models



Impute income model



Drawdown transaction validation









Capacity for growth as we access new segments

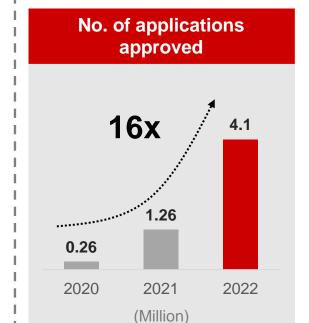
Consumer banking ecosystems (Unsecured lending)

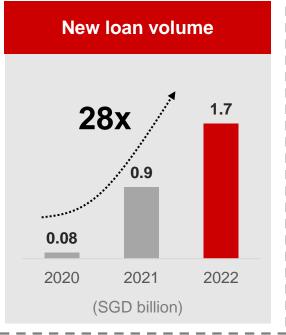
- Instant credit decisioning via real-time APIs
- Scale consumer lending with minimal incremental costs

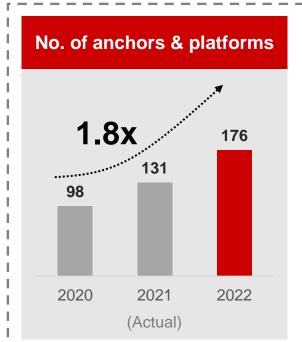
Corporate banking ecosystems

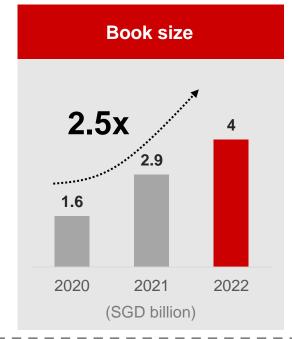
- Ability to onboard thousands of suppliers within minutes
- End-to-end digital design for low manual intervention

















Strengthening fraud detection amidst growing business

Data



- Credit Bureau
- Application



- Device ID
- Facial recognition

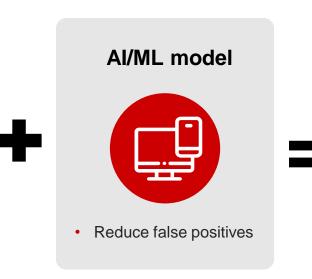


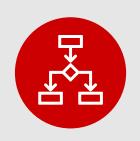
- Rule-based engines
- Black List



Electronic verification

- Detect bot attacks
- Identify multiple applications and geo-location spamming





- 12% reduction in false positives
- Reduced identity theft by syndicates





Early warning enabled by predictive models; shorter time to enhance existing models



Big data

> 700,000 network linkages traced

> 13 million payments and remittances examined



(#)

CRANE – Early warning models

Iterate and learn with additional factors, e.g. macroeconomic data, industry



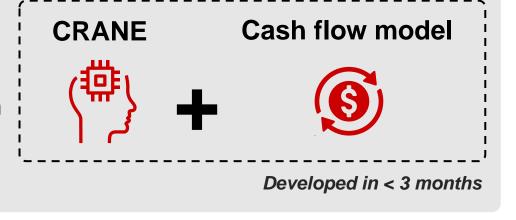
Timely alerts for > **73,000** borrowers

Instances of "Sudden Death" down from **1%** to **0.4%** (2019 vs. 2022)





COVID-19 moratorium



95% accuracy in flagging potential NPA and 60 days delinquent cases

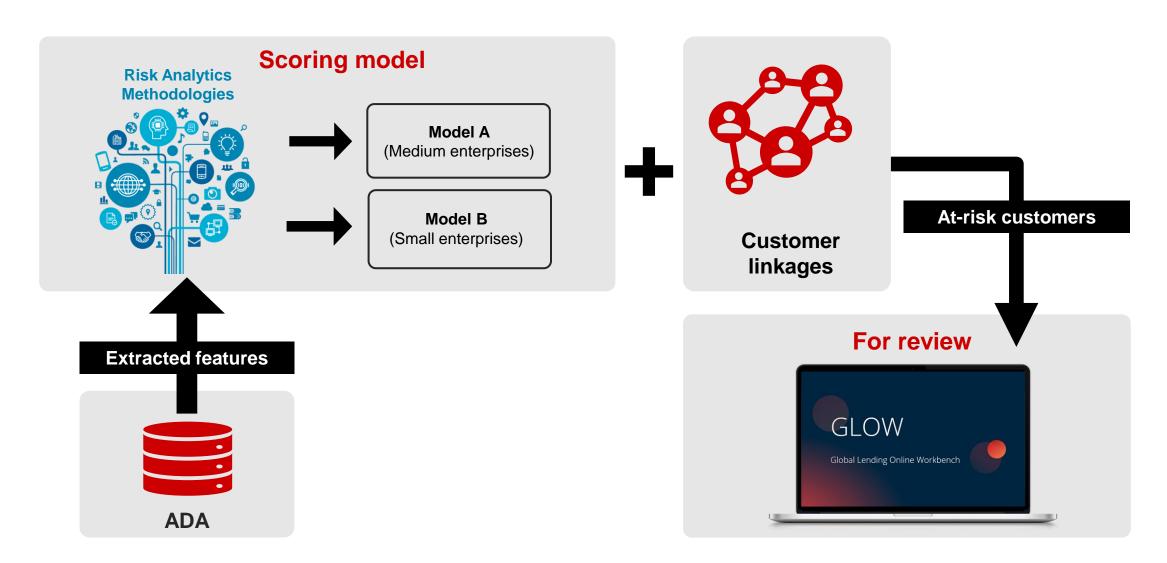
> SGD 80 million at-risk exposures identified







AI/ ML enables more proactive monitoring



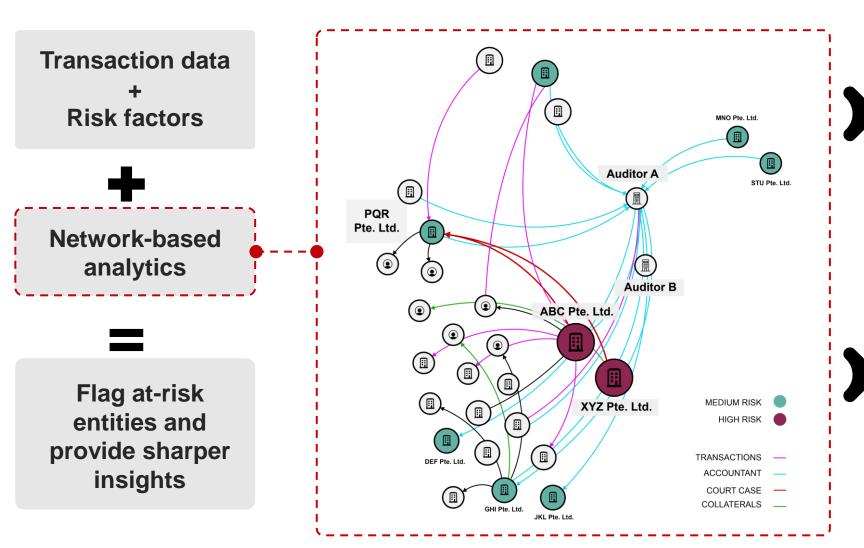
Network-based analytics captures risks that are difficult









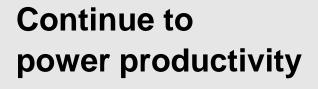


44 instances of potential round-tripping identified

Sample insights

- Auditor A serves multiple borrowers with high and medium risk
- PQR Pte Ltd has high supplier concentration from a high-risk borrower ABC Pte Ltd

Looking ahead ...





Penetrate new markets



Sharpen tools to drive portfolio effectiveness





Consumer and SME

Shee Tse Koon

Group Head, Consumer Banking Group & Wealth Management

Agenda

01 Where we left off: **Digital outperformance continues**

What we have done: Enhanced our digital proposition to reduce cost, grow revenue, and gain market share

03 Where we are going: **Grow customer wallet share**



Agenda

01 Where we left off: **Digital outperformance continues**

What we have done: Enhanced our digital proposition to reduce cost, grow revenue, and gain market share

03 Where we are going: **Grow customer wallet share**



Recap of our 2017 thesis: Digitalisation has led to superior financial and operating performance

Consumer and SME (Singapore, Hong Kong)

How we changed the business **Superior returns on Digital segment** Acquire Ecosystem strategy for wider outreach Data-driven digital marketing and search Digital customers have lower CIR engine optimisation and higher ROE Digital onboarding Digital customers are more engaged Paper-less, straight-through processing **Transact** and do more transactions Seamless, omni-channel Digital customers have higher Embed ourselves in the customer journey **Engage** income and lower cost-to-serve as a Contextualise research and marketing % of income for cross-sell



Digital customers continue to outperform Traditional customers

Consumer and SME (Singapore, Hong Kong)

Engagement via digital

Product holdings multiple of digital vs. traditional

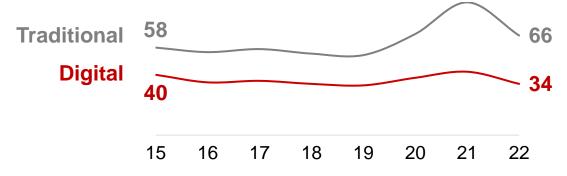


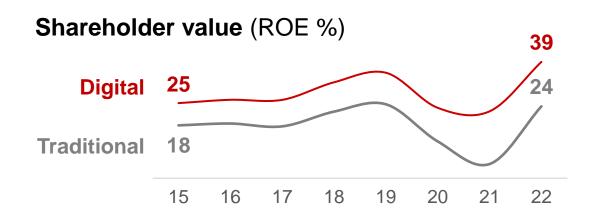
Income via digital

Income multiple of digital vs. traditional



Cost-income ratio







Agenda

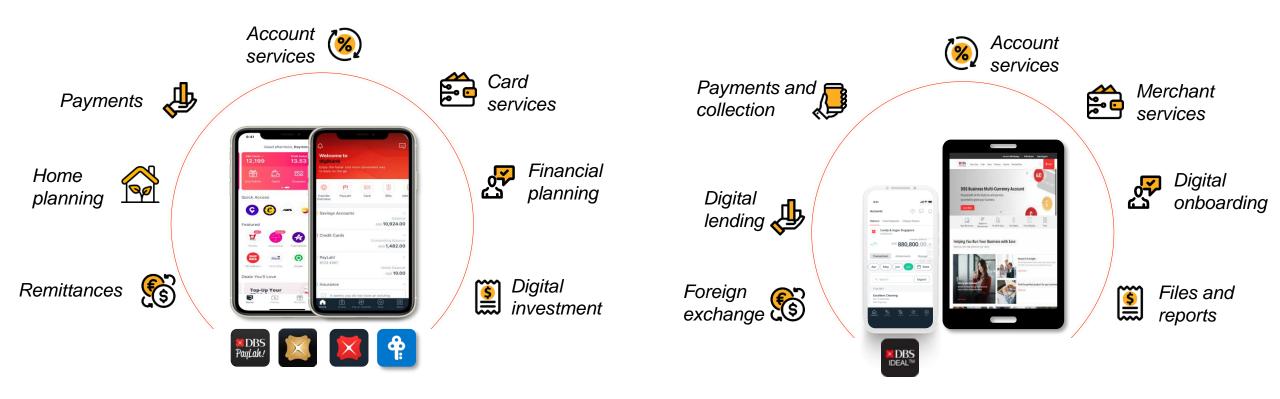
01 Where we left off: **Digital outperformance continues**

What we have done: Enhanced our digital proposition to reduce cost, grow revenue, and gain market share

03 Where we are going: Grow customer wallet share



A comprehensive digital proposition in Singapore. Fully embedded in the customer journey



Companion App for consumer banking (Digibank and PayLah!)

Multi-channel for SME banking (IDEAL app & Public Web)

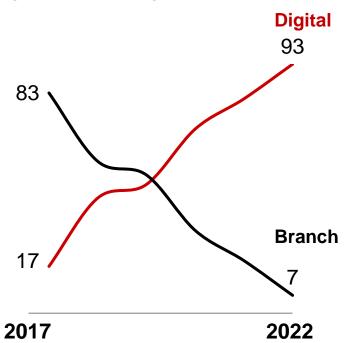


Digitalisation has lowered cost-to-acquire and cost-to-serve

Digital onboarding

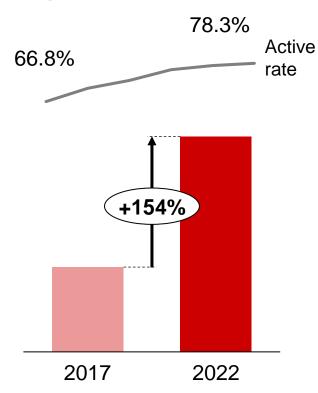
Increased digital channel share, with shift from desktop to mobile

Digital onboarding (%)



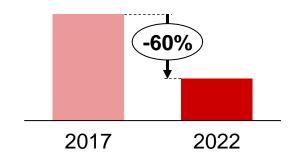
Digital transactions

Increased active digibank rate, and digital transaction volume

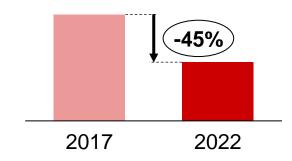


Financial outcomes

Lower cost-to-acquire per account



Lower cost-to-serve per transaction

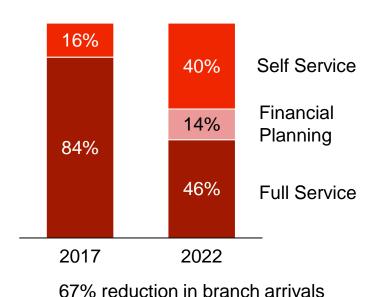




Network and servicing transformation have reduced costs

Phygital banking

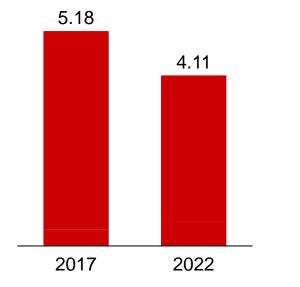
Manned touchpoints optimised through reduction in branch arrivals



Call center servicing

Manned calls reduced through digital-first servicing

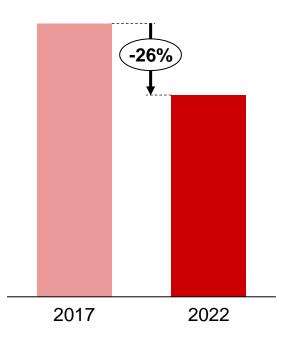
Demand volume (m)



Proactive & predictive interception
Data-driven help & support
Personalised chat bot

Financial outcomes

Lower branch and call center costs (\$)

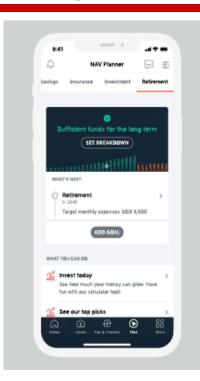




Data and Al/ML have enabled access to new segments: Democratisation of wealth



DBS digital advisor



- One-stop tool for financial planning
- 2 Open banking for holistic view of customers' financials
- 3 Hyper-personalised and contextualised nudges
- 4 Digital fulfilment through DIY investing solutions
- 5 Bite-size budget investment portfolio with digiPortfolio
- 6 Online to offline tele-advisory service for customers who need more help

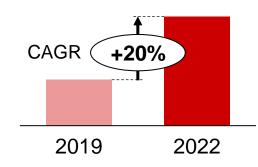
3M customers engaged with **280M** nudges

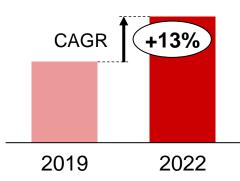
- **2.7M** transactions generating **\$47B** trading volume
- **6X increase** in premium for digital insurance

Financial outcomes

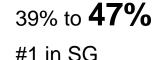
Higher investment AUM (\$)







Banca regular premium market share



CPF market share

SRS 48% to **62%**CPFIA 42% to **44%**

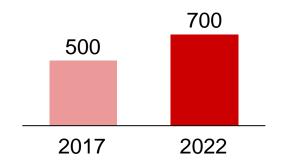


Redesigning the Treasures business has increased wealth revenue

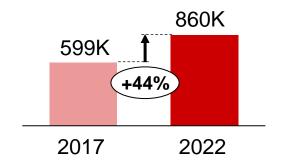
RM performance

Higher RM productivity

of clients per wealth manager



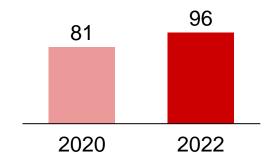
Productivity per RM per annum (\$'000)



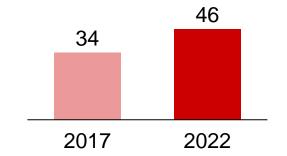
Customer engagement

Deepened engagement through Next-Best-Nudges

% customers who received nudges

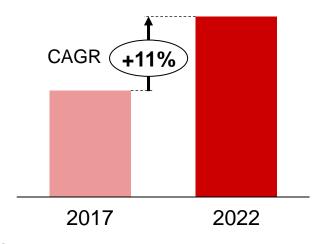


% of customers with wealth products



Financial outcomes

Higher Treasures investment & insurance income (\$)



Strong growth in fee income:

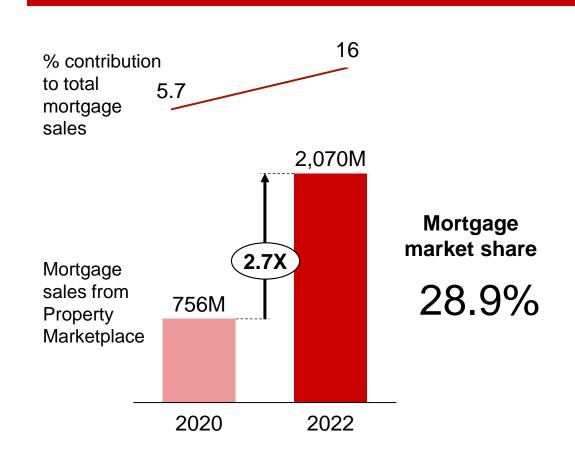
- Higher digital engagement
- Greater RM assisted transactions

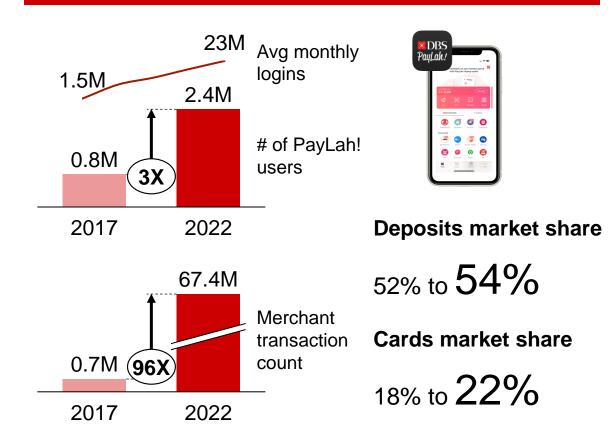


Ecosystems and marketplaces have enabled customer acquisition, extended distribution and improved customer stickiness

Increased mortgage sales with Property Marketplace

Increased ubiquity of PayLah







The digitalised SME operating model has scaled up acquisition, transaction and engagement and enabled access to new segments



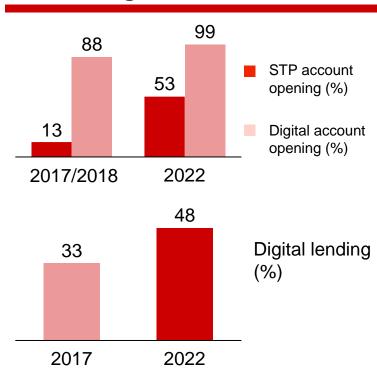


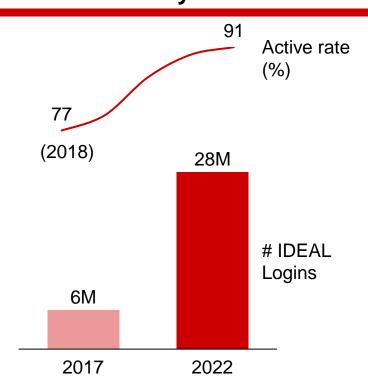


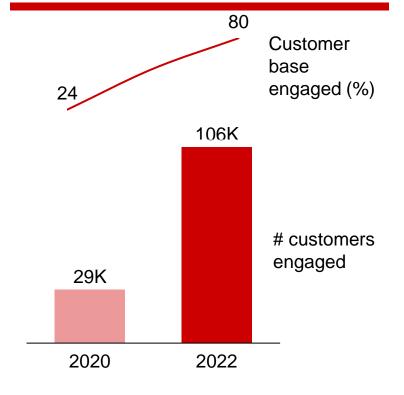
Increased digital onboarding and lending

Increased activity on IDEAL

Increased SME customers receiving digital nudges





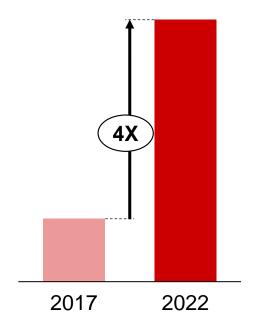




This has given rise to higher revenue, fee income and balance sheet growth

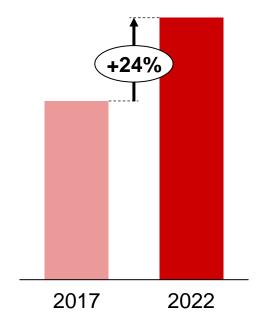
Loan balances

Increase in unsecured loan book (\$)



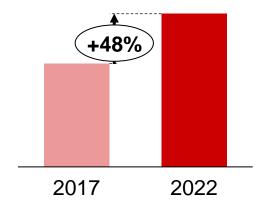
FX revenue

Increase in fee revenue per customer (\$)



Customer revenue

Increase in revenue per customer (\$)



Growth in share for micro-SME unsecured loans 18% to **34%**



Agenda

01 Where we left off: **Digital outperformance continues**

What we have done: Enhanced our digital proposition to reduce cost, grow revenue, and gain market share

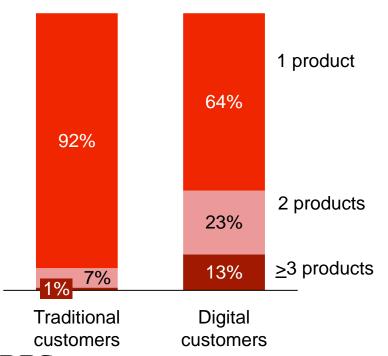
03 Where we are going: **Grow customer wallet share**



Opportunity to grow customer wallet share especially in investment and insurance

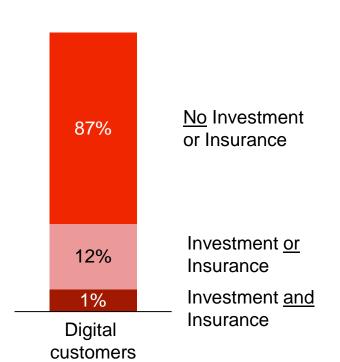
Product holding

64% of digital customers hold only 1 product. Opportunity to grow wallet share further

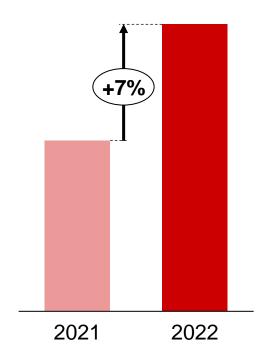


Investment and insurance holding of digital customers

87% of digital customers yet to hold investment or insurance



Encouraging growth in customers taking up investment and/or insurance

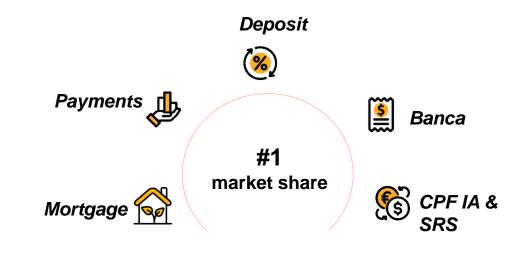


This is DBS Digibanking. Distinctive. Comprehensive. End-to-end.

Where we left off: **Digital outperformance** continues

What we have done: Our robust digital proposition has spurred cost reductions and revenue growth

Where we are going: We will continue to grow customer wallet share







This is OBS digibanking







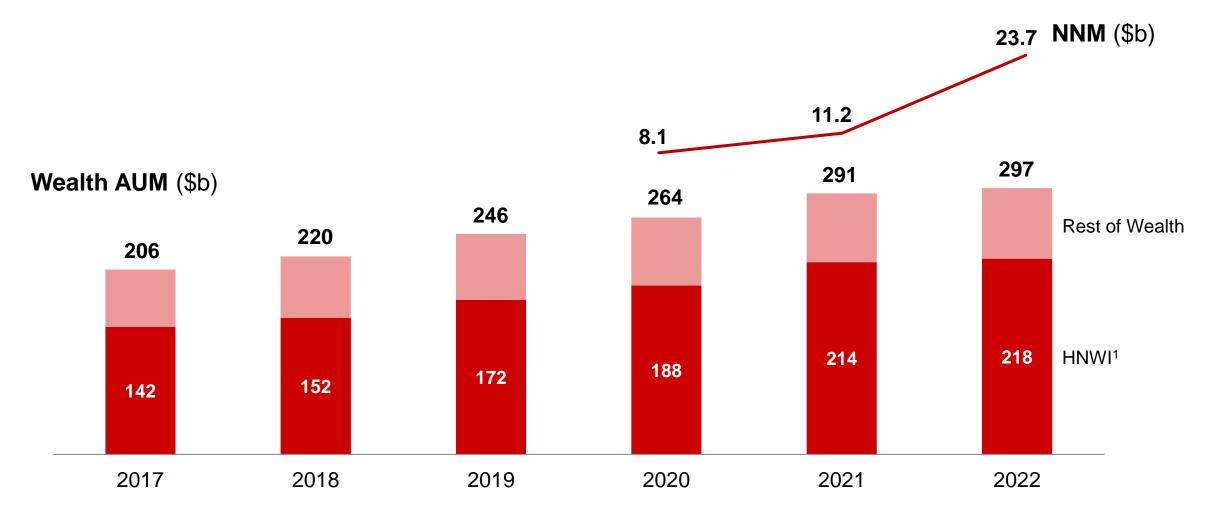
TRANSFORMATION 2.0

Investor Day 2023

Private Banking

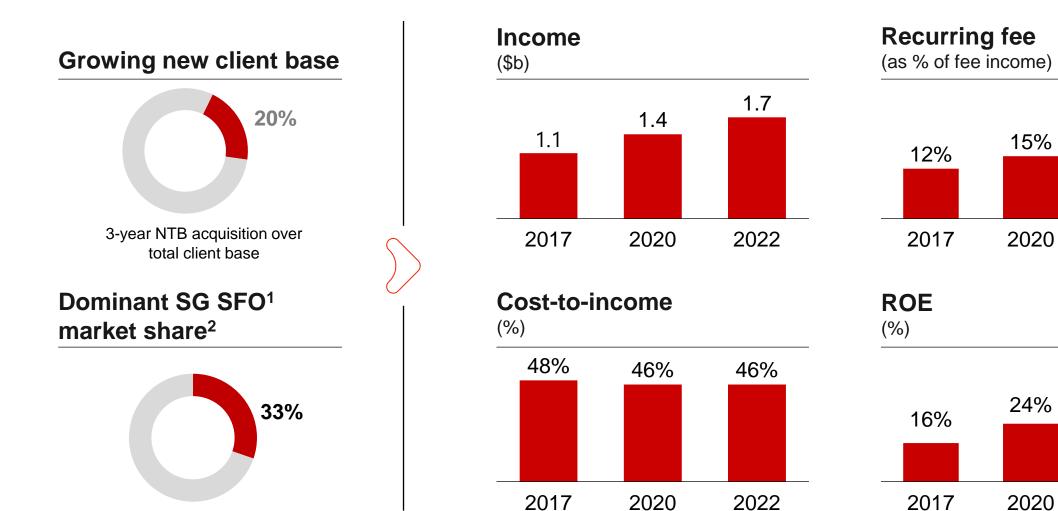
Joseph <u>Poon</u>
Group Head, Private Banking

Bolstering wealth AUM growth with our Private Banking franchise ...





... through our differentiated client engagement





- 1. SFO: Single Family Office
- 2. Parliamentary Q&A on family offices registered in SG by Mr T Shanmugaratnam, Sr Minister and Minister in-charge of MAS, Parliamentary Sitting 4Jul'22

25%

2022

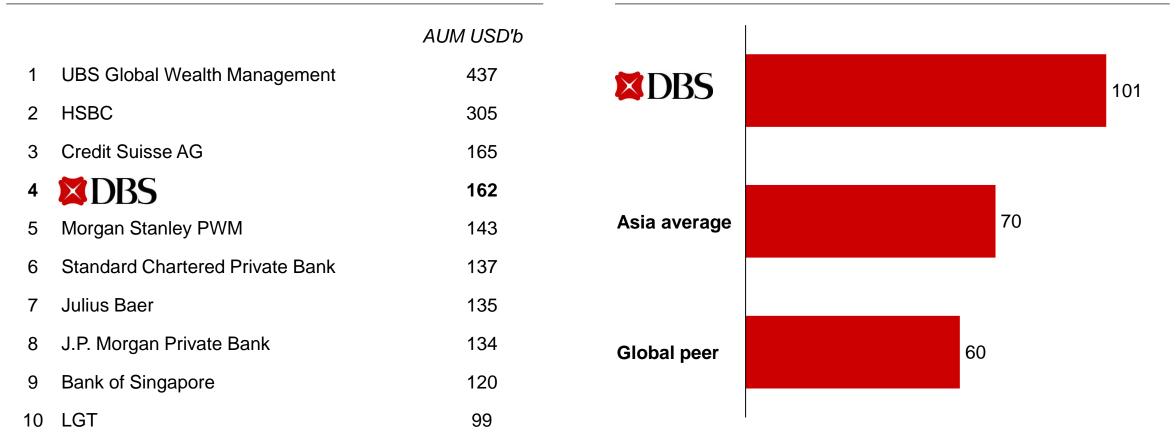
30%

2022

We have become a top tier private bank in Asia and we outperform on return on AUM

Top 10 ranked private banks in Asia 2022

Return on AUM¹ (bp)





Scaling-up through our "3P" Strategy

Proposition



- Shifting focus from Transactions to Advisory
- Managing wealth holistically, across personal and business needs
- Providing impact investment and philanthropy solutions

Phygital



People



Training across

- Skills of the future
- Investment banking
- Strategic advisory

- Arming RMs with data to re-define client experience
- Sharing curated, actionable insights, aligned to client risk-profiles
- Building digital platforms with AI/MLbacked capabilities
- Updating portfolios in real-time, with 24/7 transaction capabilities





Moving from physical ...

RM preparation

Client engagement

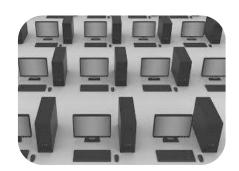
Transaction processing

Pain points / challenges / bottle necks

Inefficiencies given multiple databases and information overload

Generic "One-size-fits-all" approaches with rapidly outdated physical collateral

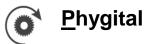
Non-integrated systems, with total reliance on RMs for transactions





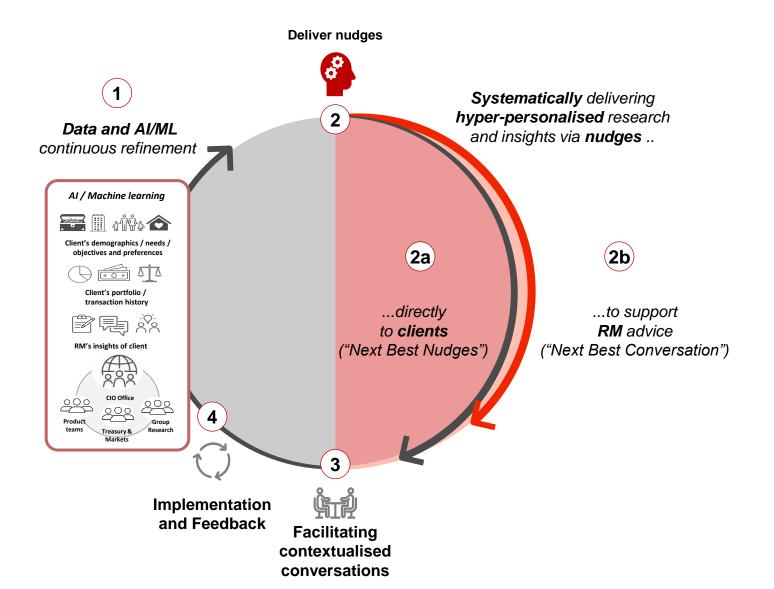






... to "Phygital" to redefine client experience

Arming RMs with the power of technology and data to re-define client experience





Data and AI/ML at the core of client engagement



1 Curating deep data insights to develop bespoke recommendations



16,000+ curated data points

- Individual client profile
- Portfolio / product holdings
- Investment activity / transaction history
- Responses to previous nudges
- Browsing history
- RM call notes
- Account planning

Predicting needs and interests

 30+ AI/ML models generating personalised nudges



Supplementing with additional Info

- Real-time inputs
 (e.g. market data feed)
- Batch inputs

 (e.g. CIO/Group

 Research content)



"Next Best Nudges"



"Next Best Conversation"





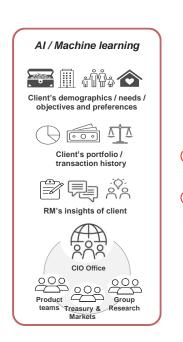
Al-assisted hyper personalized nudges, sent directly to clients at the right time to allow "Self-directed Execution"



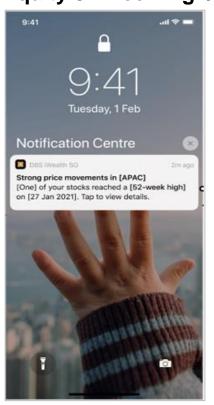
Alerts

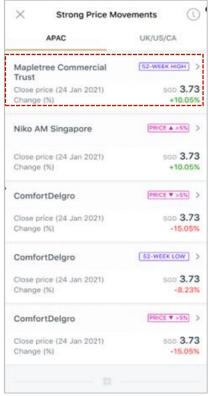
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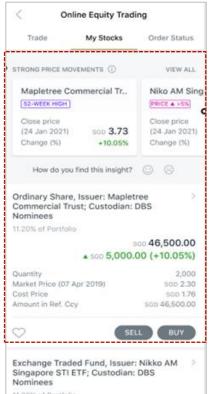
Funds

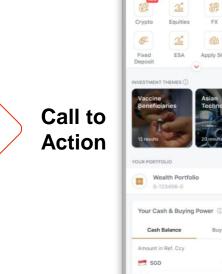


Equity 52-week high/low











1,500,000,00

1,000,000,00

Creating "Awareness" of market events impacting client's holding and portfolio risk appetite ...



Gold as a portfolio hedge

16 June 2022: Investing in commodities

DBS digibank

#ideas2invest: As the world forges a path of progress, commodities - the physical building blocks of the global economy - will see ever-growing demand. This provides tailwinds for those involved in the value chain of commodity production. Tap to read more.

8 Sep 2022: Gold for long play

DBS digibank



5m ago

#ideas2invest: Gold will continue to be supported by fundamental demand in the long term. Nonetheless, we remain conservative on gold in the short term owing to expected higher interests. Tap to read more.

3m ago

3 Mar 2023: Gold still has its sparkle

DBS digibank



#ideas2invest: China joins the list of countries that are stocking up on gold, with the PBOC announcing yet another increase in its gold reserves in January. This trend of increasing central bank buying has been going on since late last year, peaking in 3Q

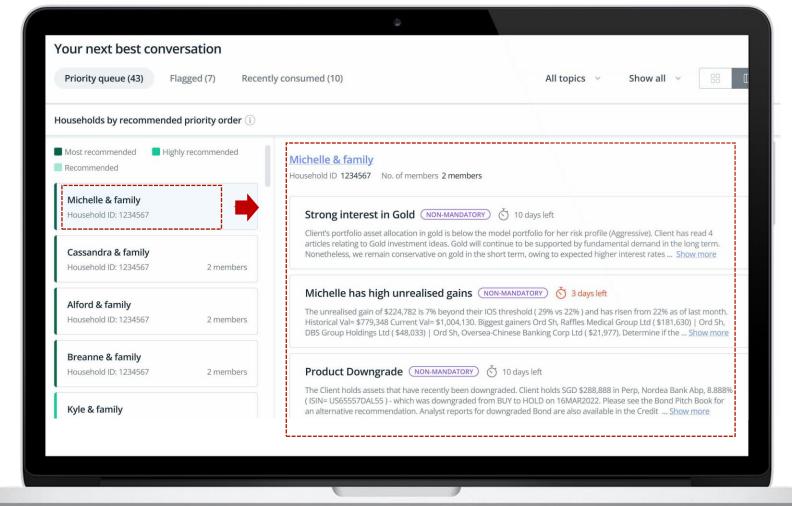
Series of timely nudges



... arming RMs with real time information ...



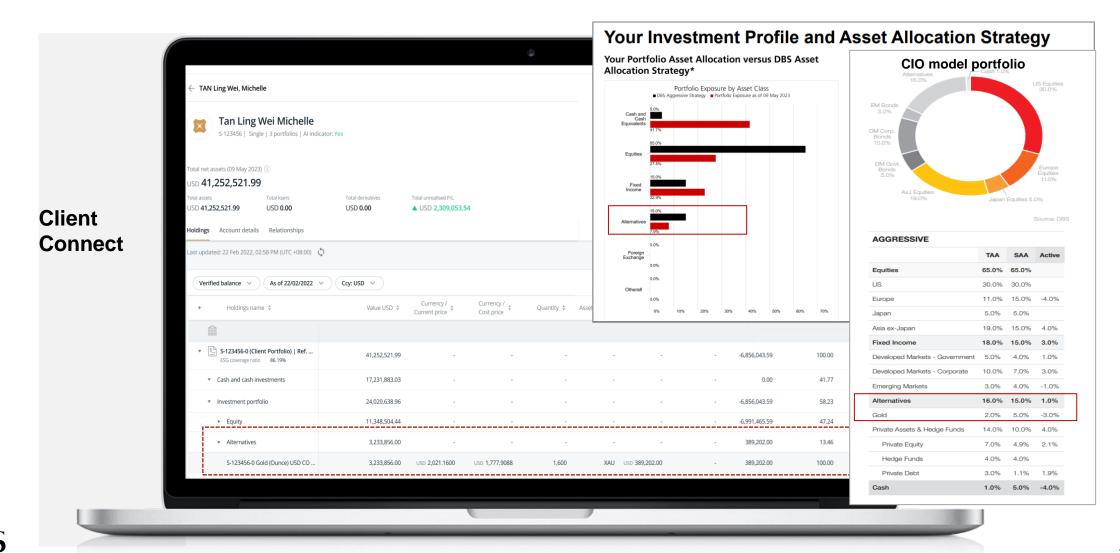
Client Connect





... arming RMs with real time information ...

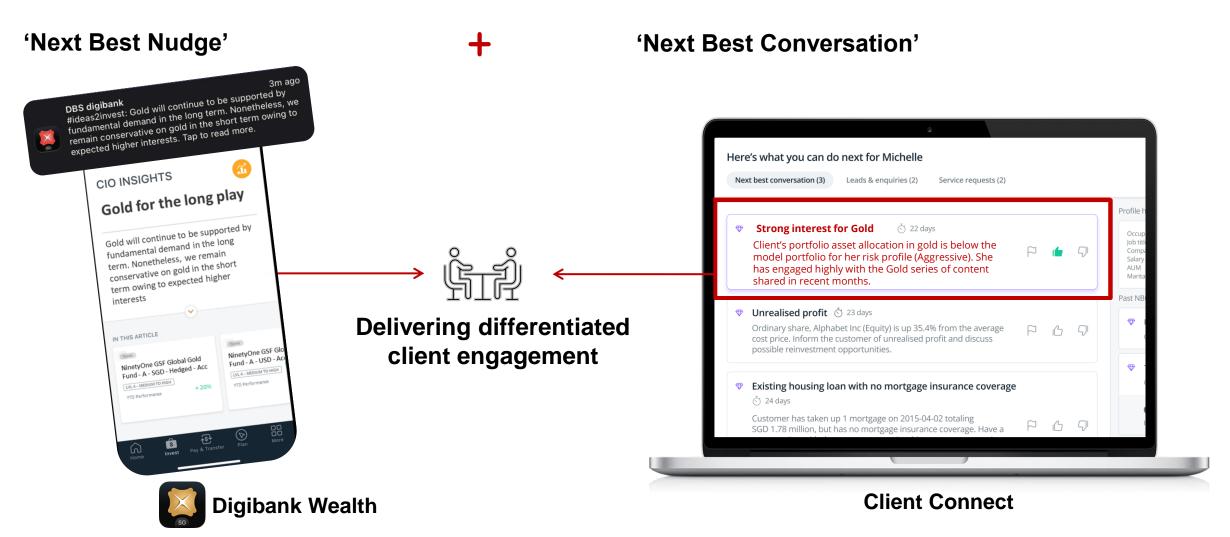






... leading to informed discussion between RM and client







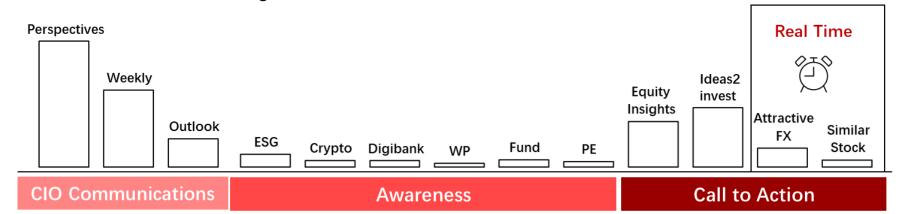
Driving value from 'Phygital'





nudges sent







Higher uptake of legacy planning



Better utilization of early-matured investments



Increased client actions on unrealised gain/loss nudges



Redefining Private Banking for a new era – personalised, sophisticated and Al-powered solutioning

Traditional private banks





Bringing together the best of both worlds

- Future-ready Wealth Managers
- Innovative Products & Solutions
- Phygital platform
 - AI/ML powered insights
 - Hyper-personalised advice
 - Dynamic portfolio optimisation

Digital-only platforms







Fundamentally changing "how" we engage our Clients...
...demonstrating "real" Client / Business outcomes



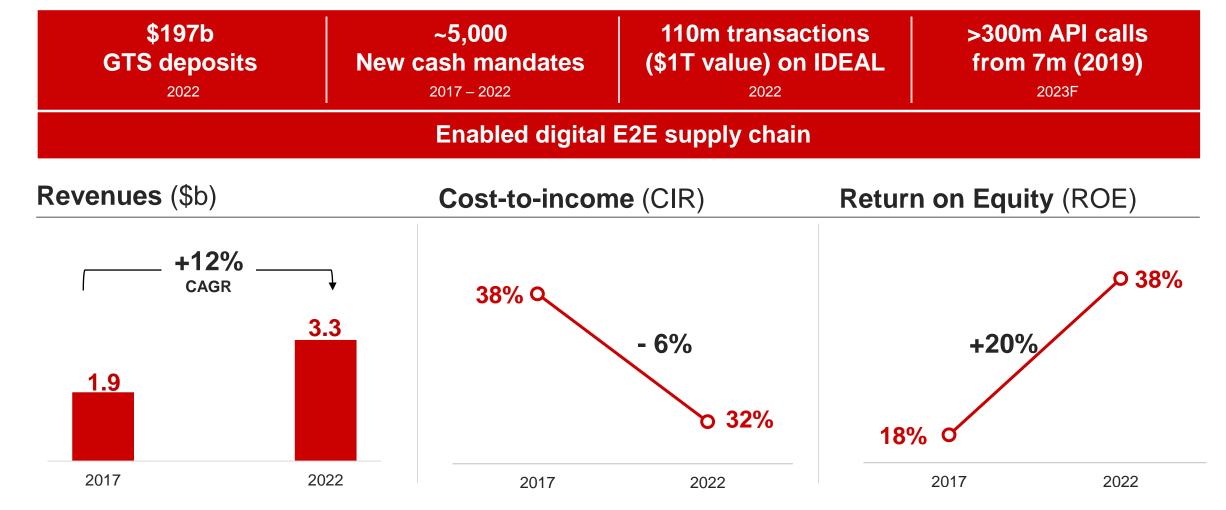


Investor Day 2023

Global Transaction Services

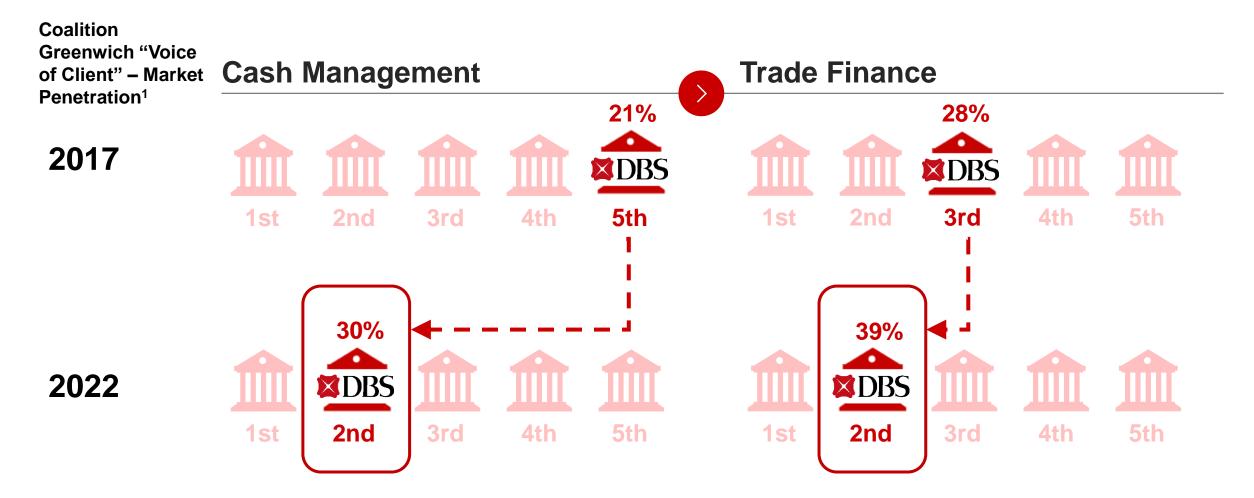
Tan Su Shan
Group Head, Institutional Banking Group

Digital transformation enabled efficient, scalable and profitable Transaction Banking





We have leapfrogged established players in our 6 key markets¹





^{1.} Source: Coalition Greenwich "Voice of Client" Studies for Cash Management & Trade. Refers to market penetration based on "All Relationships" in DBS 6 key markets (Singapore, Hong Kong, China, Taiwan, India and Indonesia).

Asia has seen rapid growth in digital economies, powered by big shifts on both demand and supply side



- Demand shift to online
- Voluminous, transactional level processing
- From batch to real-time transaction processing



- Global trade shifts & increased intra-Asia Pacific flows
- Just-in-Time to Just-in-Case: Increased demand for inventory financing
- Platforms are a lot more active in the supply chain space



We have made a paradigm shift in transaction services to enable customers' digital transformational journeys

Architecting product processors



24X7 availability, scalability & cost advantage

Leveraging real-time rails



Instant transactions and intelligent routing

Intelligent information on demand



Instant reconciliation, alerts and notifications

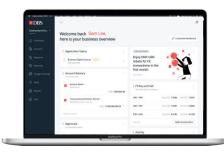


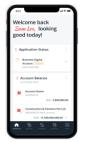
With connectivity & easy integration enabled through our Digital channels, APIs and micro-services



Our digital channels and API connectivity enable our clients' business transformation

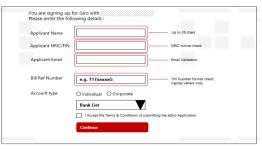
1 DBS digital channels – web portal and app





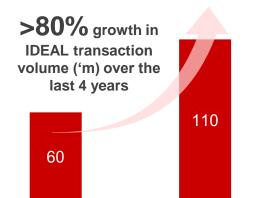
- Customisable interfaces and personalisation powered by APIs and micro-services
- Data-driven engagement and servicing nudges

2 Embedded finance – via clients' digital channels

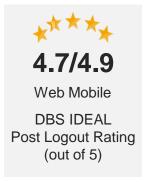


Our APIs & micro-services power clients' digital channels. Some use cases:

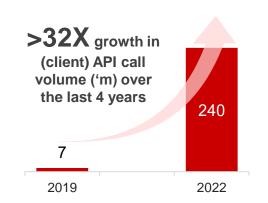
- Authorisation set-up of school fees collections
- E-commerce check-out payment services



2022









SWIFT GPI

First to launch for clients in SG & HK



2019

We handle high volumes via instant fulfilment and real-time payment capabilities

Easy to integrate, high throughput & optimised for speed & costs

Architecting product processors

High concurrent throughput & handle enriched real-time info



Intelligent information on demand

Instant reconciliation, alerts and notifications

Leveraging real-time rails

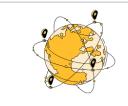
- (i) Multiple local currencies
- (ii) Intelligent routing of cross-border transfers

Enable instant fulfilment use cases which other banks cannot easily do



Business-to-consumer companies





Payment platforms / aggregators



Non-bank financial institutions

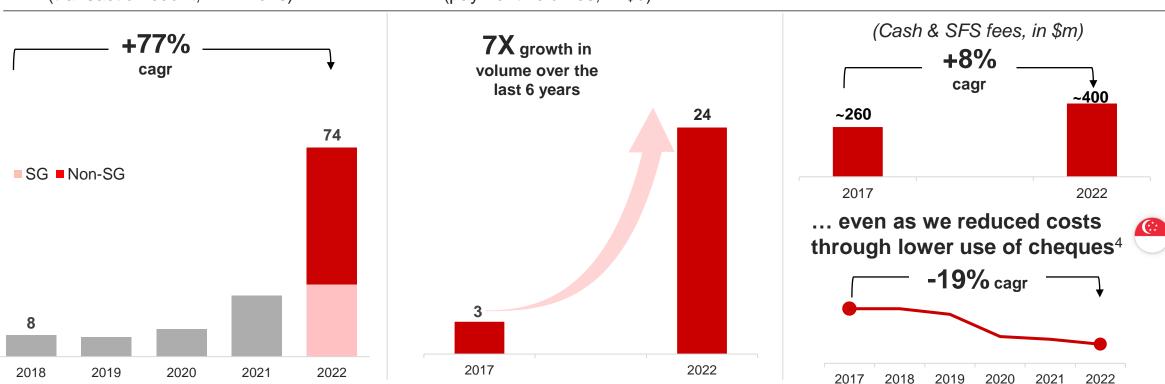


Growth in payments business: clients value our ability to perform convenient and efficient transfers

- 1 Strong growth in domestic¹ payments...
 - (transaction count, in millions)

- 2 & Low value cross-border² payments
 - (payment volumes, in \$b)

Industry leading fee growth, driven mainly by payments & settlements³



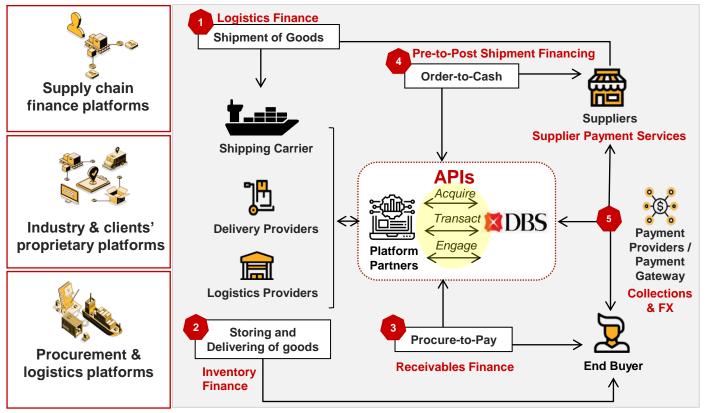


- 1. Refers to number of low value real-time payment transactions \mid 2. Payment volume \$ from Corporate and Consumer businesses
- 3. Refers to Cash & SFS fees | 4. Singapore cheque volume

SCF: Our API and core processing capabilities powered our growth via a platform-led & anchor-led approach

Connected to platforms & anchors

Developed multiple use cases across various Business Processes



of anchors & # of SCF spokes¹

+34% ~40x +32% cagr

cagr

131 176 3.7k 4.9k 6.4k

to power growth

2021

2020

Strong growth for SCF assets, with growth accelerating after FY20

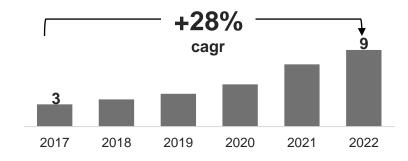
2022

SCF asset EOP balances (\$b)

2020

2021

2022





Increased overall market share gains and relevance of GTS to Group



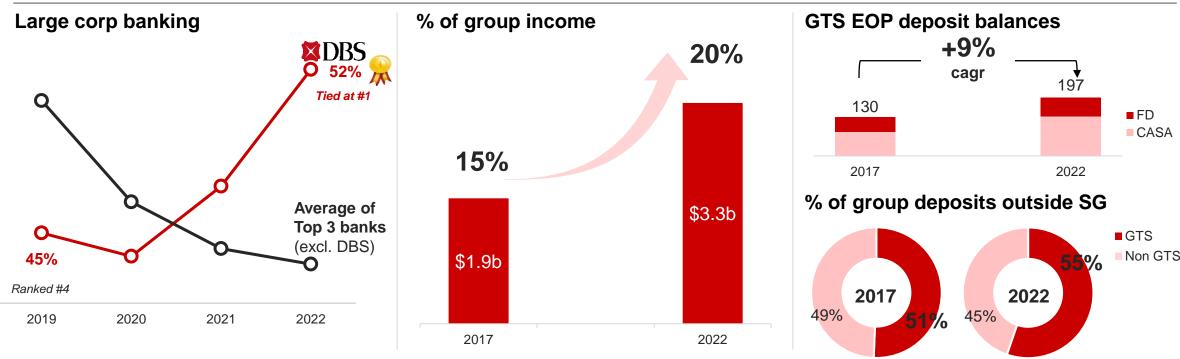
Increased penetration across DBS' 6 key markets¹ & distinctive in helping clients through the pandemic²

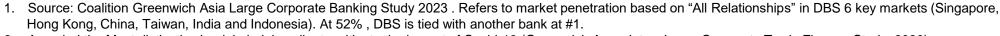


Significant contributor to Group income



Increasingly an important source of funding for the Group





2. Awarded the Most distinctive bank in helping clients mitigate the impact of Covid-19 (Greenwich Associates, Large Corporate Trade Finance Study, 2020)







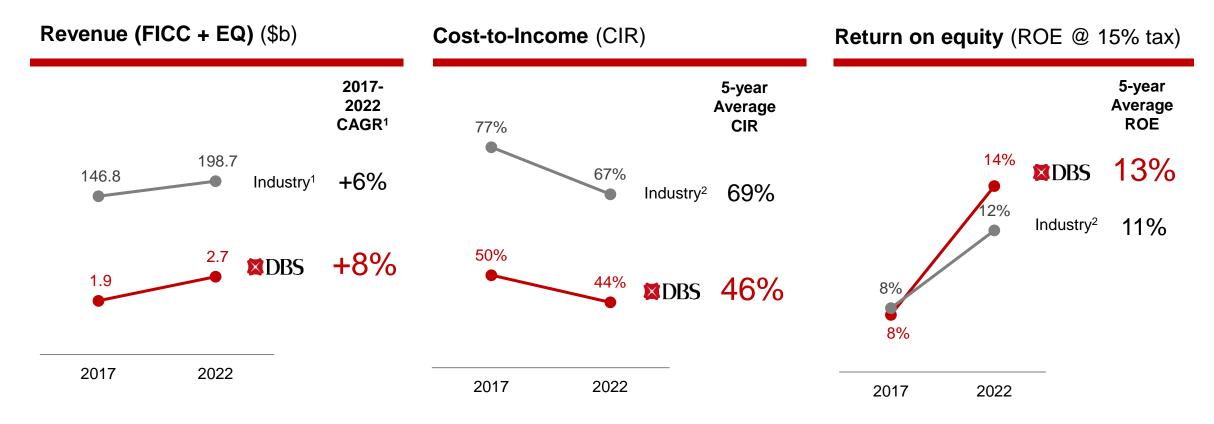
Investor Day 2023

Treasury & Markets

Andrew Ng
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

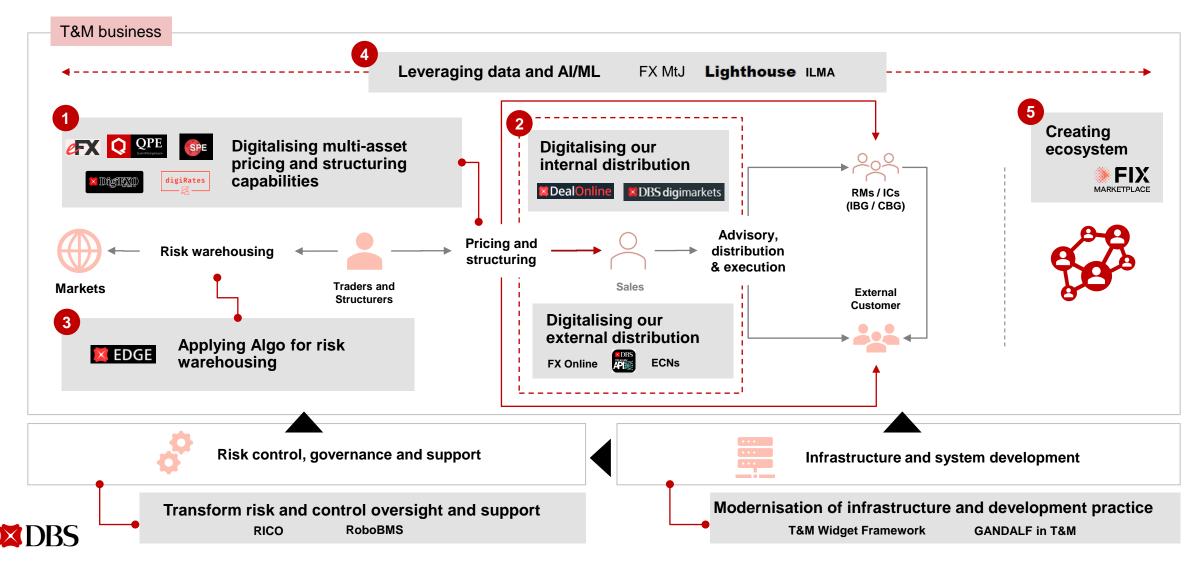




[.] Industry data source: Coalition Greenwich Analytics – Coalition Index for Investment Banking. 2017-2022 CAGR excludes revenues relating to M&A, ECM and DCM businesses

^{2.} 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

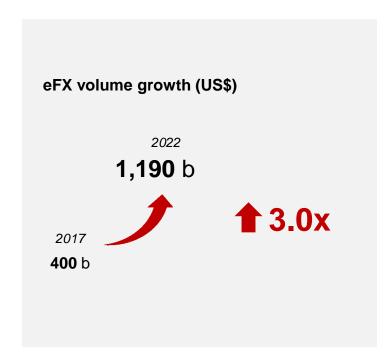


1: Digitalising multi-asset pricing and structuring capabilities to drive volumes

Foreign exchange



 Co-located FX rate engines for low latency pricing, powering innovative FX services in the bank



Derivatives

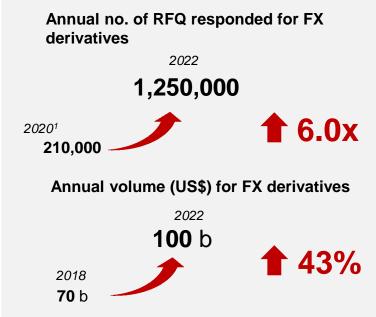


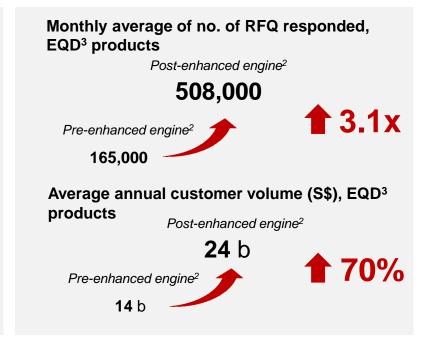






- 60x faster price response using cloud Graphics Processing Unit (GPU) farm
- Streamlined E2E workflow for auto-pricing and execution
- Highly scalable with APIs, microservices and cloud







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

3. EQD: Equity derivatives

^{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

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

Internal distribution



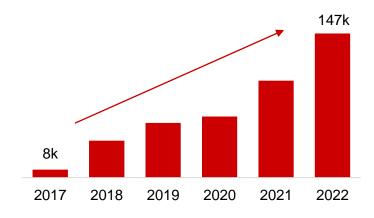
- Reducing transaction lead time from 6-8 mins to 1 min¹.
- Covering pre-trade check and post-trade entry to increase efficiency and mitigate operational risks.

External distribution



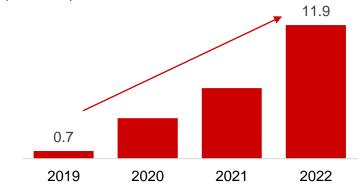
- **FX Online** Offering a transaction portal for seamless customer self-service
- FX API Focusing on B2B2B & B2B2C models, with direct connectivity to client platforms

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

EDGE

- 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 efficiency¹ over the last 4 years

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



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



Scaling up experimentation



Managing eventdriven leads



Tiering FX dynamically

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

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

- 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



Enhancing RFQ hit rate



Improving trading workflow

 Analytics model to optimise liquidity management and money market auction Improvement in hit rate via secondary bond RFQ pricing model AI/ML embedded into trading and risk management workflow to predict product rollover, cashflow and volatility



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

Al/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!"

✓ Market events – 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



Capabilities



Digitalized and streamlined origination workflows



Direct order placementand allocation for investors



Automated **documentation** generation



Real-time book updates and order tracking

Achievements since launch¹

S\$20 b
Trade volume (SGD)

130 Deal count

Value proposition



Improved work
efficiency for issuers,
investors and banks



Lower deal execution cost



Improved client
experience to encourage
more issuance

2 global and 1 regional innovation awards won in 2022



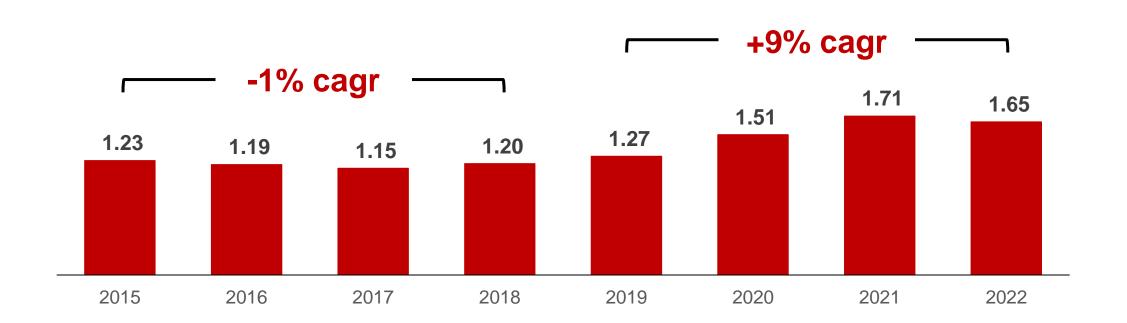






Well-positioned for sustainable growth driven by growing customer base

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



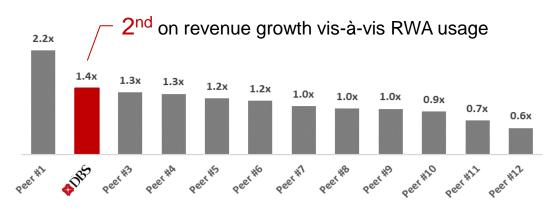


Continue to leverage data analytics to drive capital efficiency

- 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

Increase in Revenue-to-RWA

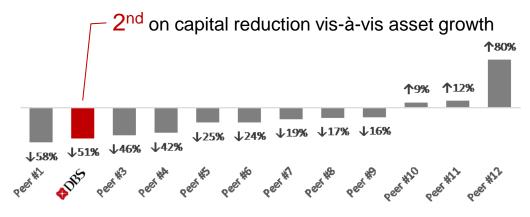




Revenue-to-RWA growth ranked by banks, 2022 vs 2017

Decrease in RWA-to-Asset





RWA-to-Asset reduction ranked by banks, 2022 vs 2017



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





TRANSFORMATION 2.0

Investor Day 2023

Growth Market: India

Surojit <u>Shome</u> Country Head, DBS India

Scaling in growth markets

India deep dive

Agenda

- Recap of our 2017 thesis: digital technologies were creating a unique opportunity
- Testing the digital-only approach in India clarified the need for a wider physical presence for better results
- Our phygital evolution allows us to tap growth opportunities
- Our strategy: Accelerating SME & Consumer businesses while deepening Large & Mid Corporate business
- Our three-pronged execution plan: Enhance digital proposition and leverage our expanded physical presence
- Aspiration for the franchise: Scale profitably to be a leading bank in India



Recap of our 2017 thesis: Digital technologies were creating a unique opportunity

Shifting to a balanced business mix with a more stable funding profile



2016: **Significant** by DBS

Launch of India's first mobileonly bank for Consumers

2017: Telly Partnership

Launch of *e-payments* integrated with accounting software for SMEs



Testing the digital-only approach in India clarified the need for a wider physical presence for better results

Liabilities

- >10M digibank App downloads and >400K SME leads through Tally partnership
 - However, **high drop offs** in 'digital-only journey' increased cost of acquisition
- ~3.2M consumers acquired but dominated by transactors with low balances
 - Target market customers using digibank as a convenient secondary account
- ~37K SMEs acquired but large number of micro-SMEs

Assets

- Fully digital journey for unsecured lending launched in 2017
 - Conversions impacted in the self-assisted journey
- Most lending revenue pools (secured consumer loans & SME financing) not accessible through a 'digital only' model

Ecosystem partnerships

Partners need national presence for better conversions

Expanded physical network required for

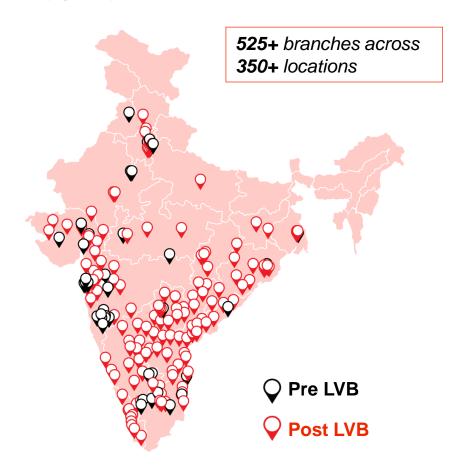
- Assisted digital journey
- Last mile support for transaction intensive products & relationships
- Brand assurance
- Better ecosystem partnerships

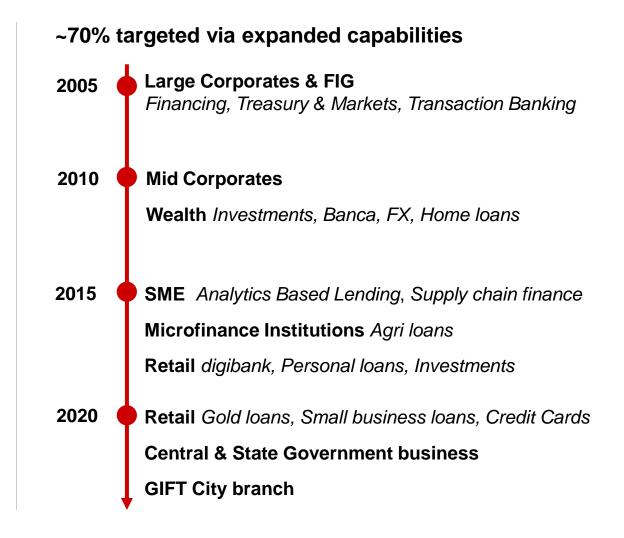


Our phygital evolution allows us to tap growth opportunities

Access to attractive market opportunity with annual revenues of S\$200-250b p.a. growing at ~10%

>90% phygitally accessible via expanded network







Our strategy: accelerating SME and consumer businesses while deepening large and mid corporate business

Business segments	Strategic priorities	Income 2022-26 cagr
Large cap & FIG	 Deepen relationship with large conglomerates and industry leaders 	~10%
	 Expand MNC franchise by leveraging Asian corridors 	
	 Deepen institutional investor franchise 	
	Build central and state government business	
Mid cap	Expanded mid cap coverage across top 30 cities with strong industry alignme	nt ~15 %
Small &	 Acquire operating accounts using phygital capabilities 	~40%
medium enterprises	 Expand analytics-based lending across the network 	
	 Leverage anchor relationships to acquire at scale 	
Consumer	Accelerate CASA and retail deposits	~60%
	 Scale wealth management for domestic and NRI customers 	
	Grow secured loans	
	Scale unsecured loans and credit cards	
DDC		



Our three-pronged execution plan: enhance digital proposition and leverage our expanded physical presence

1

Continuing to build out the digital platforms and Managing through Journeys (MtJ) for scaled onboarding and straight through processing

2

Leveraging expanded physical footprint to deliver new products, increase client acquisition and deepen relationships

3

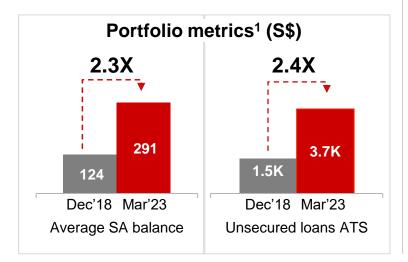
Scaling ecosystem
partnerships by leveraging
our digital capabilities and
national footprint



1. Building digital platforms and MtJ for scaled onboarding and straight through processing



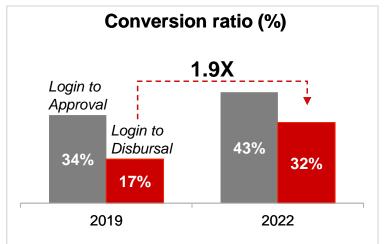
- 1M digibank retained customers and 1.4M LVB customers being migrated
- 83% new accounts opened digitally
- 5X growth in revenue per customer including partnerships^{1,2}
- Better quality acquisition leading to drop in breakeven from 5 years to 2.5 years²





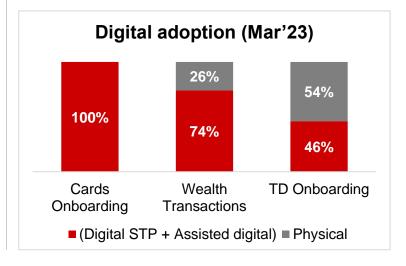


- 12K SFW customers and 70K LVB customers being migrated
- >85% onboarding digitally initiated
- 4X growth in Assets; 7X in Liabilities
- 4.4% relationship margin^(NIM + Fee)
- 3.3X increase in revenue per relationship manager



Increasing digital adoption

- Increasing share of digital transactions across the expanded customer base
- 80% of queries on digibank addressed by chatbot
- · LVB clients being migrated to digital
 - 2.2X increase in Trade transactions done digitally





2. Leveraging expanded physical footprint to deliver new products, increase client acquisition and deepen relationships

Branch integration

- All branches rebranded and upgraded
- 90+ branches merged and/or relocated; ~65% of branches to be profitable by 2024 and ~80% by 2025

Assets

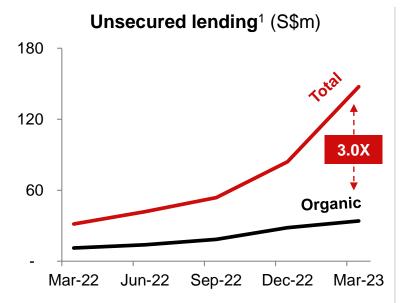
- Gold loans: 300+ locations on scalable new technology platform
- Unsecured Loans¹: assisted digital journey via branches leading to 10X increase in monthly acquisitions
- SME Financing Workflow: expanded to 100+ hubs covering >80% of major SME centers
- **Supply chain**: covering anchors and spokes across the country

Liabilities

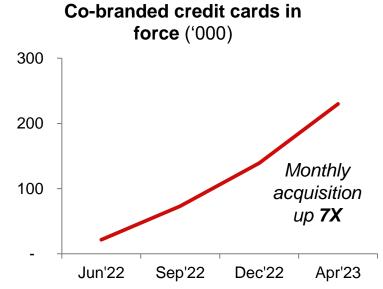
- Initial savings account balance²:
 Phygital sourcing leading to 2X higher initial balances vis-a-vis digital only channels
- Consumer time deposits³: 4X
 growth in monthly sourcing due to
 expanded network
- SME operating accounts³: 3X
 growth in new acquisitions and 2X
 increase in average current
 account balances



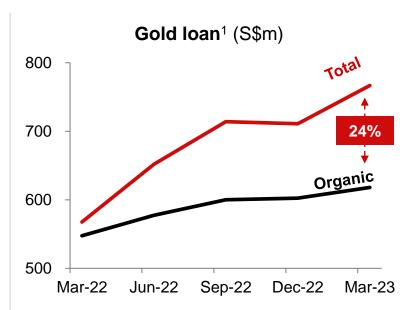
3. Scaling ecosystem partnerships by leveraging our digital capabilities and national footprint



- Contributing 68% of new loans
- More partnerships being added in 2023



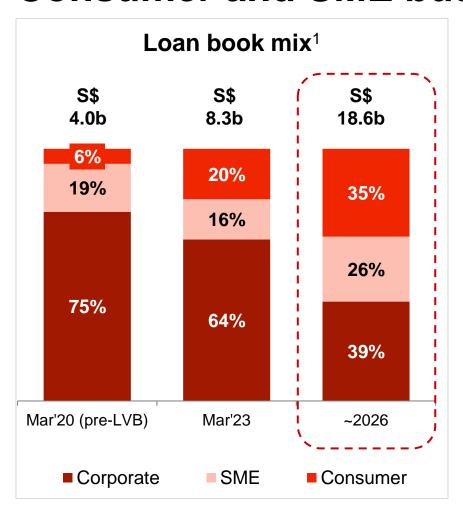
- Adding ~30K cards per month
- Mobile app penetration (>85%)
- Spend per active card above market

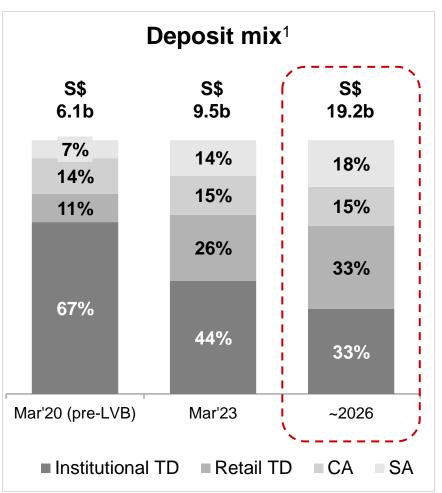


- ~50% customers acquired via partnership
- 2nd partner will be active by Sep'23

In Mar'23, partnerships contributed ~53% (72K) of new retail accounts opened (135K)

Aspiration for the franchise: accelerated growth of Consumer and SME businesses

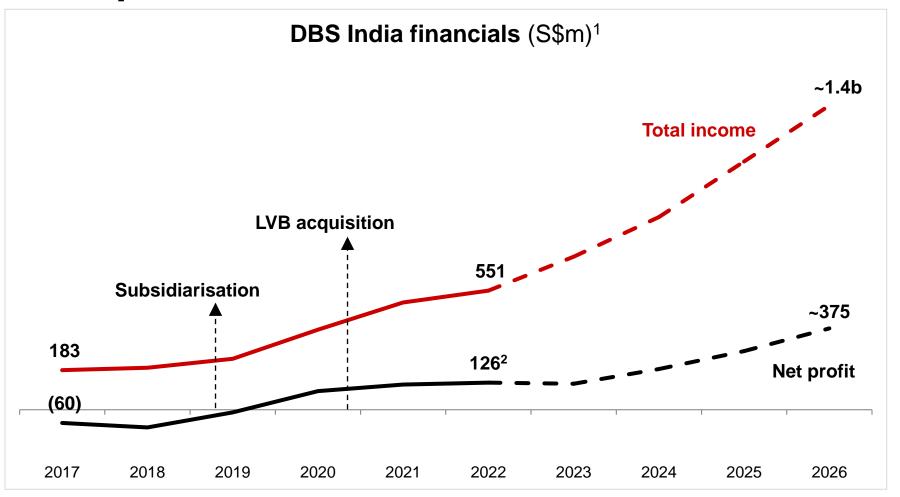




By 2026:

- Overall loans to grow2.2x
 - Consumer and
 SME loans to
 grow at 40% cagr
- 100bp NIM
 expansion to enable
 a higher rate deposit
 growth strategy
- Overall deposits to double

Aspiration for the franchise: sustain a 25-30% income growth for improved cost-income ratio and ROE



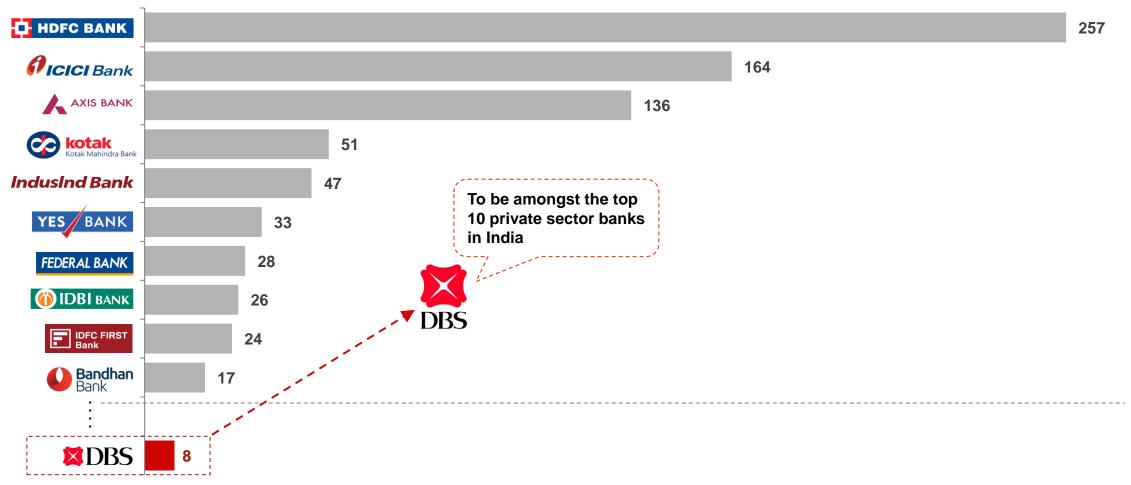
By 2026:

- Total income projected to grow2.5X
- Net profit projected to grow **3X**
- Cost-income ratio to improve from 78% to 57%
- ROE to increase from 5% to 8%



Aspiration for the franchise: scale profitably to be a leading bank in India









TRANSFORMATION 2.0

Investor Day 2023

Closing Remarks

Piyush <u>Gupta</u>
Chief Executive Officer

Piloted new engines of growth

- Cross-border low-value payments
- Digital Asset Ecosystem
- Blockchain-based payments
- Climate Impact X (CIX)
- Mezzanine fund
- Software services

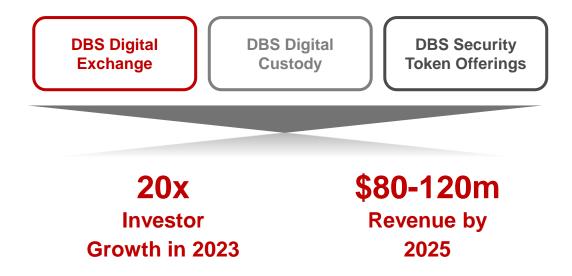


Piloted new engines of growth

Cross-border, low-value payments

Volume (S\$b) Revenue (S\$m) >50% growth >50% growth 195 195 2022 2025 2022 2025

Digital Asset Ecosystem





DBS – A different kind of bank

- Built a set of best in class regional businesses (GTS, PB, T&M) and now building depth in local businesses (SME, Consumer) in priority growth markets
- Outperformed in core markets and built data driven underwriting capabilities required to scale in our growth markets
- Unique self reinforcing flywheel: world class Data and Al/ML platform; at scale ecosystem partnerships and a new way of working – managing through journeys
- Sustained continuity and stability in our top team that is distinctive in today's environment and have large tech talent pool which is unparalleled among our peers
- Created options through our portfolio of new growth engines



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