## DIGITAL CHALLENGER BANKS

A DESIRE • A DREAM • A VISION

November 2020





Champions aren't made in gyms. Champions are made from something they have deep inside them - a desire, a dream, a vision

Muhammad Ali



## Foreword

It has been five years since Singapore started its Smart Financial Centre journey, and four years since the set up of the Singapore FinTech Association (SFA). Today, Singapore is one of the leading FinTech hubs in the world with 1,000 FinTech firms employing over 10,000 people. Every four out of five FinTech firms operating in Singapore are a member of SFA.

There are three defining characteristics of the Singapore FinTech ecosystem. First, Singapore is one of the most open countries to talent, and attracts entrepreneurs from all over the world to start their journey or set up a new regional base for their growing venture. Second, the majority of FinTech firms are B2B-oriented, due to Singapore's position as a leading international financial centre and more than 7,000 MNCs residing here. Third, most of the FinTech firms operate beyond Singapore, either regionally due to the growing emerging economies or internationally to support the business of international banks.

The new Digital Bank License regime will likely define the next phase of FinTech development in Singapore. We have much to learn from Digital Challenger Banks from other countries. We also foresee many of the successful Digital Bank License applicants in Singapore partnering with existing FinTech firms rather than creating from scratch. Further, the new digital banks will look to scale beyond Singapore.

The Singapore FinTech Association and BCG Expand FinTech Control Tower have come together to produce a "Digital Challenger Banks" reference guide, to help you navigate the exciting and dynamic Digital Challenger Banks landscape in Singapore and the region.

Hock Lai Chia, President, Singapore FinTech Association

Pauline Wray, Managing Director, Global Lead BCG Expand FinTech Control Tower





# Singapore FinTech Association

SFA is a cross-industry and non-profit organization.

It's purpose is to support the development of the FinTech industry in Singapore, and to facilitate collaboration among the participants and stakeholders of the FinTech ecosystem in Singapore.

The SFA is a member-based organization with over 800+ corporate members. It represents the full range of stakeholders in the FinTech industry, from early-stage innovative companies to large financial players and service providers.

To further its purpose, the SFA also partners with institutions and associations from Singapore and globally to cooperate on initiatives relating to the FinTech industry. The SFA have signed over 60 international memorandum of understanding (MoU) in more than 40+ countries and are the first U Associate organisation to be affiliated with National Trades Union Congress (NTUC). For further information visit <a href="https://singaporefintech.org/">https://singaporefintech.org/</a>



# Boston Consulting Group

Boston Consulting Group partners with leaders in business and society to tackle their most important challenges and capture their greatest opportunities. BCG's diverse, global teams bring deep industry and functional expertise and a range of perspectives to spark change through leading-edge management consulting as well as data science, technology and design, digital ventures, and business purpose. We work in a uniquely collaborative model across the firm and throughout all levels of the client organization to deliver results that help our clients thrive





## BCG Expand FinTech Control Tower

BCG Expand FinTech Control Tower (FCT) is a research focused unit developed jointly by the Boston Consulting Group (BCG) and Expand Research. The FCT identifies initiatives, technologies, and companies that matter most in today's FinTech ecosystem and assess their impact.

This is completed using our internal platform that can ingest data from multiple sources and apply a proprietary taxonomy combined with a rigorous framework, resulting in a highly accurate and globally complete FinTech dataset. We engage directly with financial institutions, regulators, industry stakeholders and innovators, putting us at the forefront of the latest research and FinTech trends



## About this document

This document has been developed in partnership with BCG Expand FinTech Control Tower – a subsidiary of the Boston Consulting Group – and the Singapore FinTech Association

The report covers five sections:

- A taxonomy of Digital Challenger Banks
- Global growth trends
- Regional variances and regulatory drivers
- Go-to-market strategy
- Singapore and potential future state

The FinTech Control Tower defines Digital Challenger Banks as providers challenging the incumbent landscape. The report does not cover digital-only initiatives from traditional banks

This report is informed by interviews with founders of Digital Challenger Banks, senior executives at local incumbents, perspectives of regulators and the Singapore FinTech Association, the primary industry body headquartered in Singapore

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Regional
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## **Executive Summary**





## Executive Summary

Digital Challenger Banks have become a global phenomenon and are poised to disrupt the status quo in Southeast Asia

Since 2015, there has been a 200% increase in the number of Digital Challenger Banks globally, of which 45% are in Americas, 35% are in EMEA and 20% are in APAC. Four models of Digital Challenger Banks may be observed: they are differentiated by 1) ownership of a banking license 2) partnership model and 3) entity, where they are either FinTechs or corporates that are not from the financial services sector

Landscape

Different models of Digital Challenger Banks are prevalent in each region, in part influenced by policymakers. While regulatory initiatives are driven by different factors, two main approaches to licensing are observed. Regulators either adopt vehicles to facilitate the existing licensing process, or provide Digital Bank / Virtual regulations tailored for a new breed of firms

Regulatory

The go-to-market Strategy strategy of Digital Challenger Banks is primarily driven by the maturity level of their market and entity type: start-ups or corporate-backed. Consequently, they have different product strategies, launching with either a transactional or credit business. Few Digital Challenger Banks are currently profitable. For the ones that are, interest income and their ecosystem strategy are key drivers

## Singapore

& SEA SEA to issue Digital Bank licenses, enabling non-traditional providers to enter the banking sector. Successful applicants will offer strong value propositions combining non-financial and financial services. They tap into a fast-growing region that will be the sixth-largest economic block globally by 2030. With a significant part of the population remaining unbanked, the opportunity for new banking providers is tremendous

Singapore is first in

# The Rise of Digital Challenger Banks





## Banking is evolving as new providers and innovative models emerge

Shifting customer expectations, advancement in technologies and regulatory developments...

Cloud computing Mobile technology Personalized experiences **APIs** Anytime and anywhere Al and ML Frictionless Omni-channel Digital **Technologies** Customer Expectations Regulations Digital bank licensing Open banking E-KYC.

...are changing the "Who", "What" and "How" of banking



Start-ups and non-FI corporates as banking providers
Specialized "as-a-service" roles across the banking stack



Innovative products that solve for underserved and unbanked

Personalized services and features enhancing value add



Fully-digital offering with 24/7 availability Embedded provisioning at the point of customer need



## Five main traits that characterize Digital Challenger Banks



## Channel

Provide digital-only and mobile-centric services, available, anytime and anywhere



## Experience

Design great user experiences, personalized engagements, fast and hassle-free services



## **Platform**

Leverage cloud-native, open architecture tech stacks, enabling advanced analytics and partnerships



## **Culture**

Operate as a technologyfirst company, emphasize lean and agile working environment



#### **Brand**

Develop an emotional brand affinity with community of users, engage via nontraditional media channels

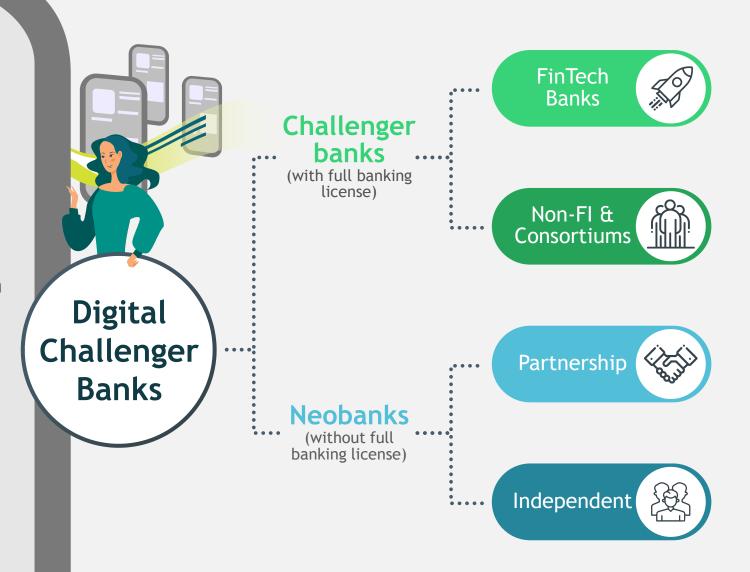
## Globally, we observe four models of Digital Challenger Banks

Digital Challenger Banks include Challenger Banks and Neobanks:

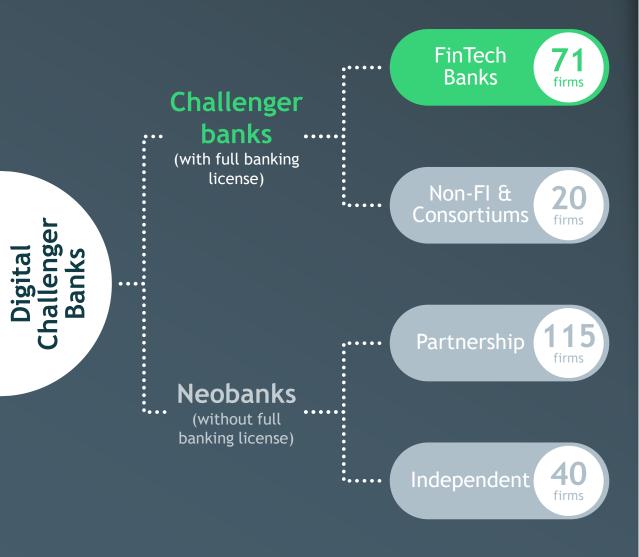
Challenger Banks hold a bank license and can be further differentiated by their entity type: FinTech Banks versus an established Non-Financial Corporate or Consortium

Neobanks on the other hand do not have a bank license, and instead partner with a bank license holder or leverage another license type to provide "bank-like" features

<sup>1.</sup> Digital Challenger Banks as defined here excludes Direct Banks or Digital Banking businesses of traditional incumbent banks 2. Payments / lending / investment specialist FinTechs are excluded Source: BCG FinTech Control Tower







## **Challenger Banks** - FinTech Banks

Recently founded firms that have acquired a full banking license and are permitted to provide a full range of banking products and services





Acquired license on July 2019

Acquired license on Dec 2018





Acquired license on July 2016

Acquired license on April 2017



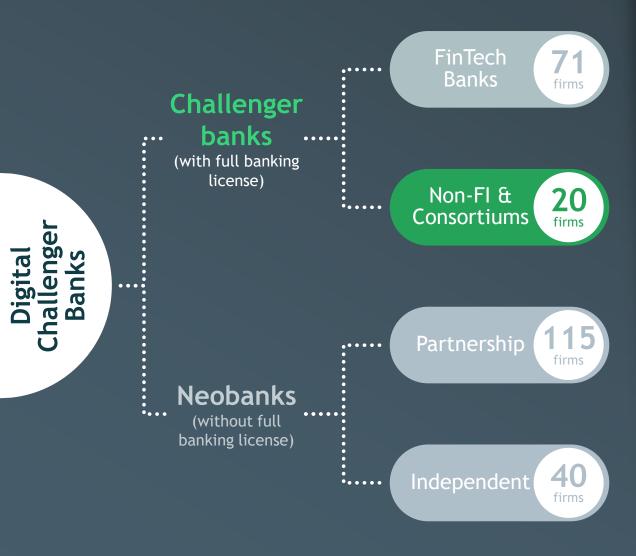
Acquired license on May 2020



Acquired license on Sept 2019







## Challenger Banks - Non-FIs & Consortiums

Large established non-financial corporates from industries such as Telco, Social Media, e-Commerce, Ride-Sharing and others, that have gone on to acquire a full banking license



MeBank 微众银行

Parent: Kakao, Social Media

Parent: Tencent, Social Media



orange<sup>™</sup> bank

Parent: Alibaba, E-Commerce

Parent: Orange, Telecom



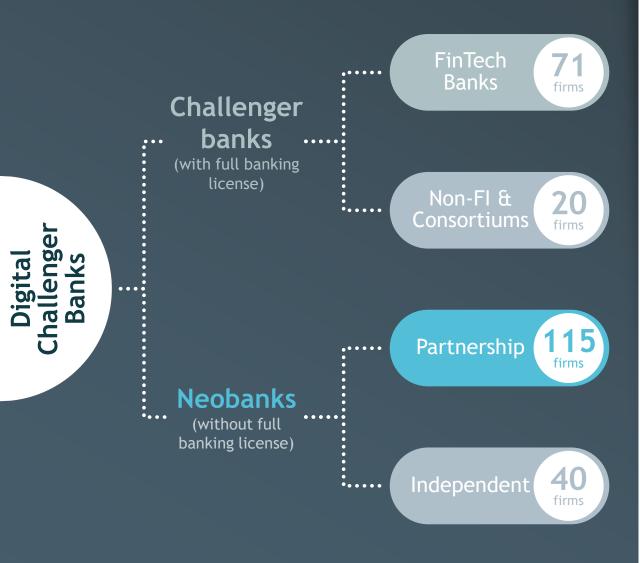
Parent: KT Corp, Telecom



Parent: Xiaomi, Consumer Electronics

Selected examples





## **Neobanks** - Partnerships

Firms that partner with a bank license holder, either directly or via an intermediary processor, to provide banking products and services



Bank Partner: Bancorp, Stride bank



Bank Partner: Clearbank



Bank Partner: DBS



Bank Partner: Bendigo and Adelaide Bank

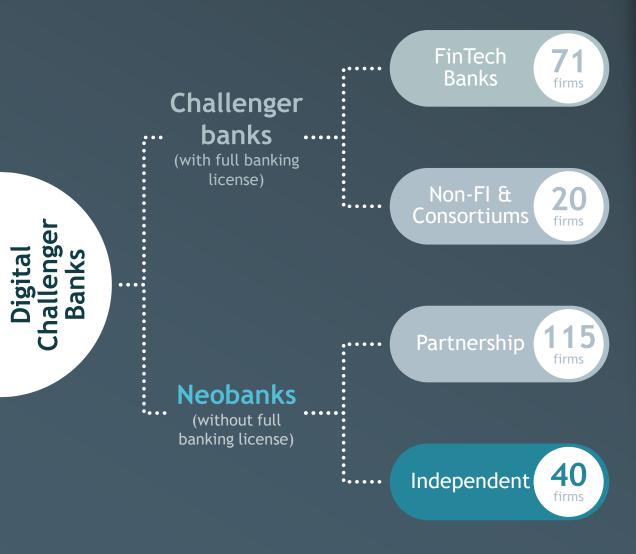


Bank Partner: Evolve Bank & Trust



Bank Partner: Peoples Trust

Selected examples



## Neobanks - Independent

Firms that have acquired an electronic money, payments or securities license and provide "bank-like" services. Some are FinTechs that specialized in lending or investments prior to extending into banking



neat

License: EMI Registered Agent

License: Money Service
Operator



Aspiration Po Well Do Good

License: Payment Institution

License: Broker-Dealer



SoFi **\*\*** 

License: Broker-Dealer

License: Broker-Dealer

#### Selected examples

Note: "Bank-like" refers to the functionalities of holding, transferring and spending money. Independent Neobanks may offer these through a cash management account. Independent Neobanks may work with licensed entities for processing, card issuances and account capabilities

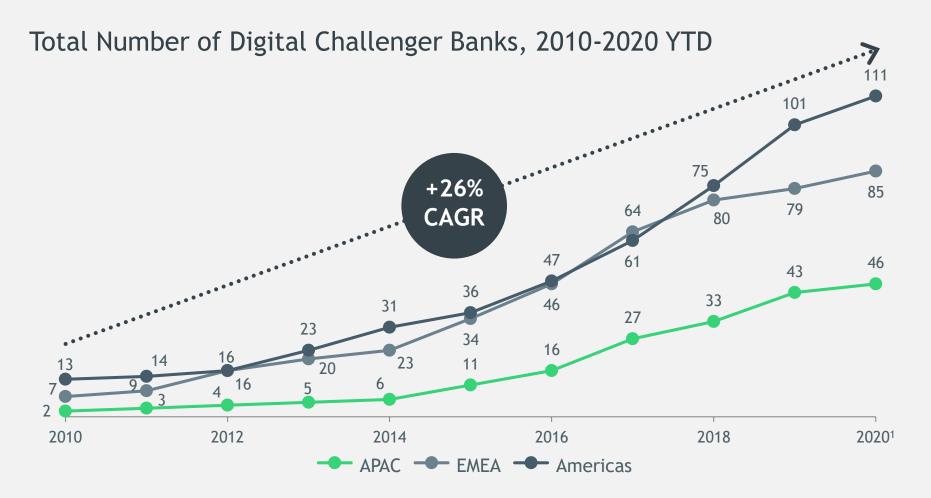
Source: BCG FinTech Control Tower

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# Globally the number of Digital Challenger Banks has increased rapidly, particularly from 2015



1. As of Aug 2020 Source: BCG FinTech Control Tower



200%

increase in number of Digital Challenger Banks since 2015

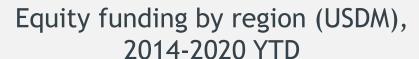
Growth in part encouraged by regulators introducing Digital Bank related policies

45%

are based in Americas, 35% in EMEA and 20% in APAC

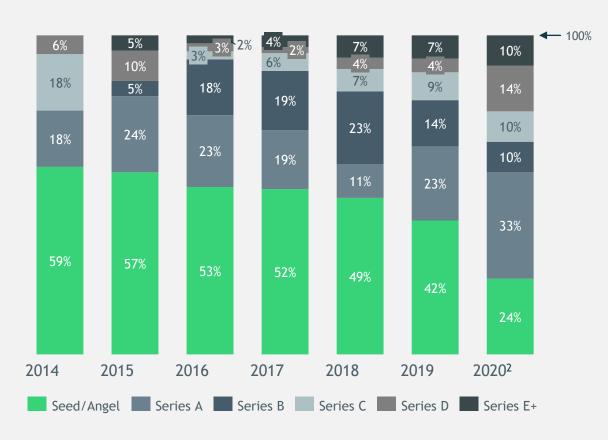
UK and Germany-based players comprise more than half of the total in EMEA, while the US and Australia have the most number in their respective regions

## Total equity funding has reached ~USD14B, with majority of rounds in early stage<sup>1</sup>





No. of funding rounds by stage (% share), 2014-2020 YTD





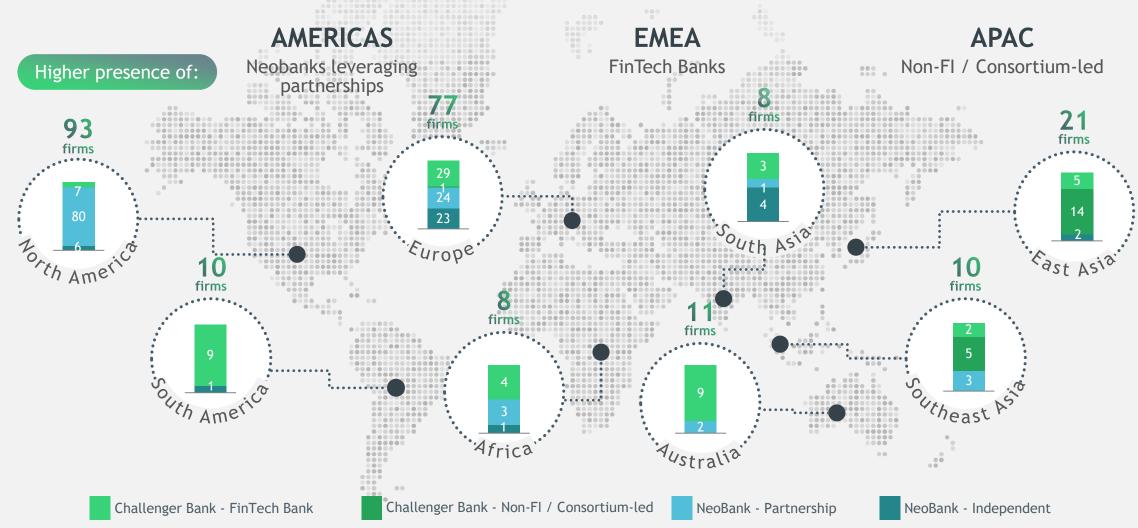
<sup>1.</sup> Early-stage funding include Seed, Series A and B 2. As of Aug 2020 Source: BCG FinTech Control Tower

# Regional Variances and Regulatory Drivers





## Distribution of Digital Challenger Bank models varies across regions



Note: Selected examples. Imminent issuances of 5 MAS Digital Bank Licenses included for Southeast Asia Source: BCG FinTech Control Tower

## Factors unique to each market have encouraged the rise of different Digital Challenger Bank models











USA

UK AUSTRALIA

SINGAPORE HONG KONG

#### OBSERVATIONS ON PREVALENT DIGITAL CHALLENGER BANK MODEL

Higher presence of Neobanks leveraging bank partnerships

Higher presence of FinTech Banks

Higher presence of Non-FI / Consortium-led

#### POTENTIAL DRIVING FACTORS

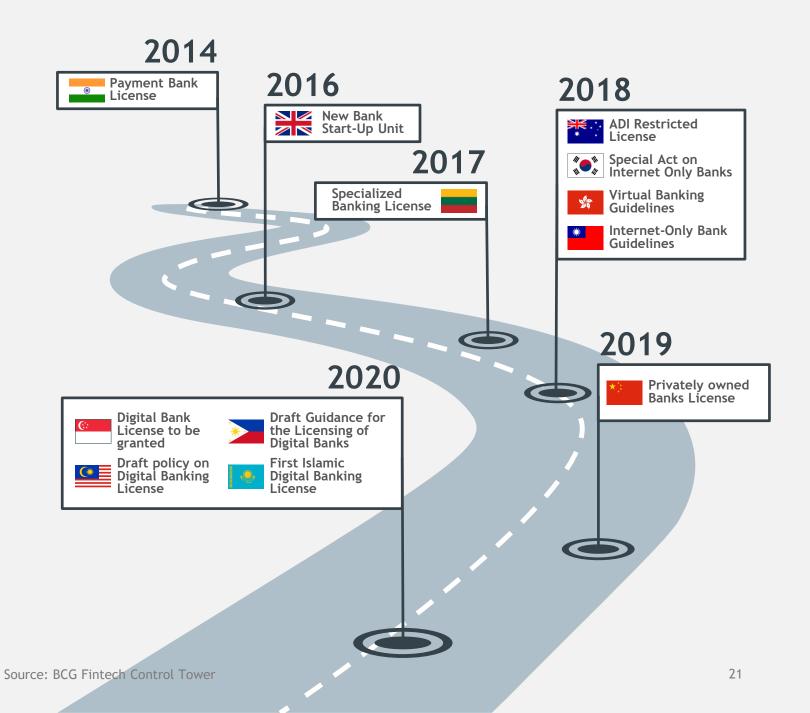
- Digital Bank licensing regime not developed
- Fragmented regulatory landscape; difficult to obtain a bank license
- Durbin Amendment allows some Neobanks to charge higher interchange fees
- Availability of Banking-as-a-Service providers partnering with FinTechs to go-to-market

- · Presence of Digital Bank licensing regime with an open path to application
- Mobilisation approach allowing firms that do not meet the full requirements on day one to apply - e.g. lower upfront capital requirements
- Lower interchange fees, incentivizing firms to launch credit products that require licensing
- Presence of Digital Bank licensing regime with a calibrated approach that encourage entry of well-resourced Non-FI firms - e.g. high capital requirements
- Presence of "Super-Apps" / Tech Giants with financial services expertise

Note: Selected examples and non-exhaustive factors



Regulators are increasingly active in bank licensing, facilitating the entry of new players



## Regulators' approach is split between a dedicated and a nondedicated licensing framework for Digital Challenger Banks



Most jurisdictions apply existing banking laws and regulations to Digital Challenger Banks, which face the same licensing procedures and requirements as traditional applicants. However, there may be initiatives designed to facilitate market entry of these new banks, such as the 'New Bank Start-Up Unit' in the United Kingdom



















Some jurisdictions have specific licensing frameworks designed for Digital Challenger Banks, where licensing requirements can differ from traditional banks. These include restrictions around physical branches, ownership, sustainability of businesses plans and technology-related elements













Draft stage

## Global comparison of licensing requirements

	Non-Dedicated Licensing Framework		Dedicated Licensing Framework				
Licensing Requirements		*	*	" <b>"</b> "	*	<b>(</b> :	
Cap on the number of licenses granted	-	-		-	-	<b>✓</b>	
Controlling stake owned by locals	-	-	-	-	-	For Digital Bank licens	Full se
Possess track record in technology	-	-		-			
Viable & Sustainable Business plan <sup>1</sup>							
Market segments restrictions	-	-	-	Retail and SMEs only	-	SMEs & Non for Digital \ Bank licens	Wholesale
Financial inclusion value proposition	-	-			-		
Transitional measures to facilitate entry							
Transition scheme for minimum paid-up capital	-		-	-	-		
Caps or restrictions on products offered during transition			-	-	-		

<sup>1.</sup> Applicants to Singapore's Digital Bank Licenses must demonstrate path-to-profitability Note: Non-exhaustive



## Initiatives launched to facilitate entry of Digital Challenger Banks

## **UNITED KINGDOM**

New Bank Start-Up Unit



## **AUSTRALIA**

Restricted Authorized Deposit-Taking Institution (RADI) License



## **SINGAPORE**

Digital Full Bank License



# Description

Optional mobilisation phase which allows new banks to partially operate before becoming fully authorised.

After this transitional period, if successful, new banks are granted with a full banking license. If not, the authorisation is removed

New banks can apply for a restricted license, i.e. an authorization granted for a transitional period during which they will perform a limited range of business activities governed by a smaller set of regulatory requirements.

If successful, new banks are granted with a full banking license (ADI license). If not, they must cease all activities and liquidate their business.

A Digital Full Bank (DFB) has to pass through a phased-in approach where it can perform activities on a limited scale with restrictions on business scope and deposit-taking activities, but does not have to meet the paid-up capital requirement in full.

This transitional period will demonstrate the applicant's ability to meet its commitment & the regulator's supervisory requirements.

# Restrictions

The Authorisation letter drafted by regulators will list tailor-made restrictions the bank is subject to, adapted to its respective business limiting the amount of business it can undertake (e.g. deposit amount)

Specific legal restrictions on the:

Maximum size of deposits;

Minimum capital adequacy and liquid holdings;

Product and services offerings

Specific legal restrictions on the:

Maximum size of deposits;

Business which is limited to simple credit and investment product,

Deposit accepted from the public

## Time

The Authorisation is granted for a period of 12 months

The RADI license can be granted for a maximum period of 2 years

Expected to be fully functional within 3-5 years from commencement of business



The Restricted ADI license is the middle ground between the willingness to introduce new players and to maintain important prudential standards<sup>1</sup>







1. APRA adds: "APRA's licensing 'mission' is not to licence as many new banks as it can, as quickly as it can. Rather, our mission is to facilitate the launch of viable entities. At the risk of stating the obvious: challenger banks can only make a difference to the competitive dynamic of the Australian market if they survive and thrive"

Note: The Australian Prudential Regulation Authority (APRA) is an independent statutory authority that supervises institutions across banking, insurance and promotes financial

system stability in Australia
Source: FinTech Control Tower



# Open banking and e-KYC policies have enabled the acceleration of Digital Challenger Banks

## Open Banking

Facilitates exchange of data among banks and third-party financial service providers through the use of APIs, making it easier to build applications and services

#### e-KYC

Enables KYC process to be completed through digital means, facilitating onboarding of new users via mobile/online platforms

#### How does it act as an enabler?



## Reduce time to launch a bank

Ability to offer underlying functionality/products that existing banks provide via APIs, allowing new players to go-to-market in a much shorter amount of time



## Enable marketplace strategies

Customers can have access to products and services from partnering/competing banks by allowing the latter to digitally and securely access their financial information



#### Build better products

By gaining access to and aggregating account details at other banks, players have a holistic view of the financial health of their users and can launch more personalized products



## Make branchless banking feasible

Enables remote onboarding of customers by allowing completion of KYC process in a digitalonly manner



#### Save operational cost

Reduces operational overheads by eliminating inefficient and costly physical onboarding process



## Reach underserved / unbanked segments

Reach and on-board parts of the population which may be difficult to access with a physical network Go-to-Market Strategy





## Go-to-Market Strategy | Five Key Considerations

Value proposition

Target segments

User acquisition

Product strategy

Path to profitability











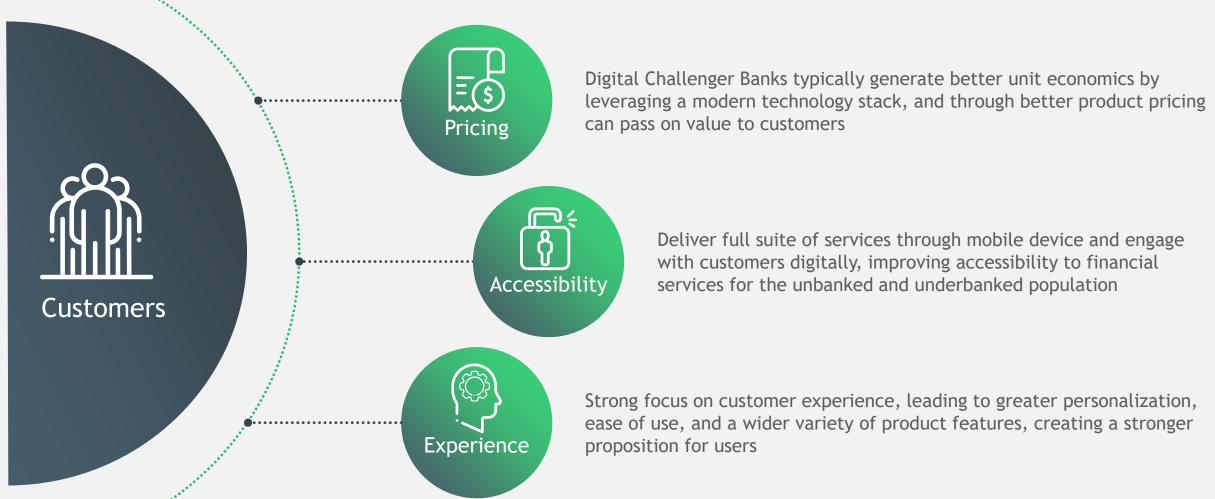
How does the value proposition of Digital Challenger Banks differ from traditional banks

What are the target segments of Digital Challenger Banks

How do Digital Challenger Banks acquire users What products do Digital Challenger Banks offer and in what sequence

What are the success factors of currently profitable Digital Challenger Banks

# Value proposition | Digital Challenger Banks provide affordable and accessible financial services with improved customer experience

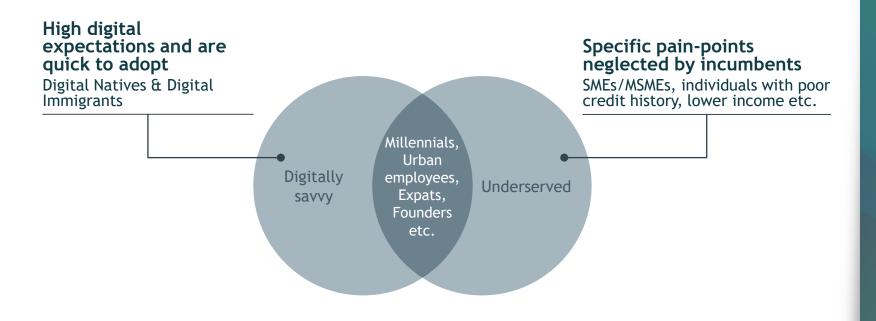








## Target Segments | Start with digitally savvy and the underserved in mature markets



**EXAMPLES:** 



Young (age 25-35),

digital savvy

professionals and

frequent travelers



N 26

Young (age 25~35) and lower income (\$35Knatives \$70K a year)

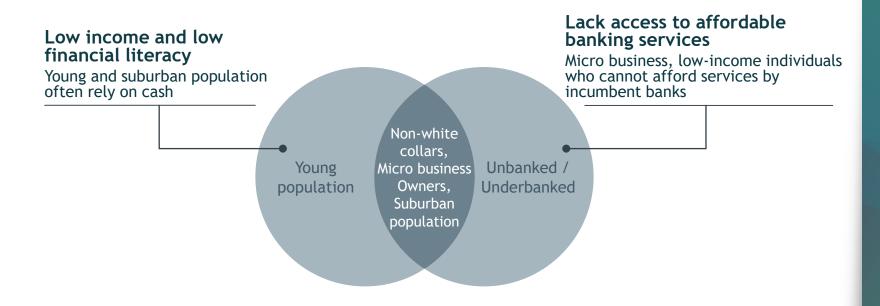
#### kakao**bank**

Digitally-savvy (age 30-50) and urban employees

Young (age 20-30), metropolitan and digitally-savvy

Millennials (age 18-35 vears old) and digital

chime



**EXAMPLES:** 



individuals and MSMEs



'Long tail' customers, MSMEs and farmers in China



Unbanked and underbanked individuals



Unbanked individuals



Frequent travellers, economically active and socially mobile



77% of Weilidai customers are engaged in non-white collar services









Digital Challenger Banks launched by start-ups differ significantly from those backed by corporates

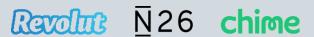




## Start-up

Young company building a new brand in banking. Launched Neobanks and Challenger Banks (FinTech Banks)

- Build brand and customer base from scratch
- Offer free products / services to quickly gain market share
- Prioritize valuation over profit in the early stages





## Corporate

Established firm outside financial services entering banking.
Launched Challenger Banks (Non-FI & Consortiums)

- Inherited strong brand recognition and large customer base
- Focus on high margin banking products to monetize customer base and data
- Prioritize profitability early-on









# User Acquisition | Start-ups and Corporate-backed Digital Challenger Banks differ on generating awareness and onboarding customers



#### **AWARENESS**



## CONSIDERATION



#### **ONBOARDING**

## **Start-ups**

#### Market to new users

- Paid MGM / referral program
- Paid search / SEO

#### Create virality

- Use social media, 'invitation-only'/ wait lists to create 'buzz' with target segments
- Leverage word-of-mouth of existing customers to drive organic growth

#### **Build partnerships**

Acquire customers through third-party platforms

#### Market to existing users

- Identify target segments from existing customer base, using activity data
- Promote the new banking services on own platform with minimal costs

#### Leverage brand recognition

 Reassures customers who may otherwise hesitate to switch to a new and unfamiliar banking brand

## Offer anchor / hook products

- Products that address a clear pain point neglected by incumbents
- Unique Selling Points / valueadded services that appeal emotionally

## Price competitively

- Free basic account
- Attractive interest rates / low fees

#### Design great onboarding experience

 Fast and hassle-free on-boarding (usually within mins), allowing users to try the banking app with minimal effort

#### Integrate with existing journeys

- Embed on-boarding process into existing customer journeys in a manner that it appears seamless and like a simple extension of services that users are already familiar with
- Leverage existing details of user to expedite on-boarding to new bank

## Corporatebacked





Volt is leveraging partnerships to attract new customers at a lower acquisition cost. As most Australians are multi-banked, enabling customers to view their complete financial universe via the corporate partner's app or web will provide a better user experience and allow corporates to deepen engagement with their customers









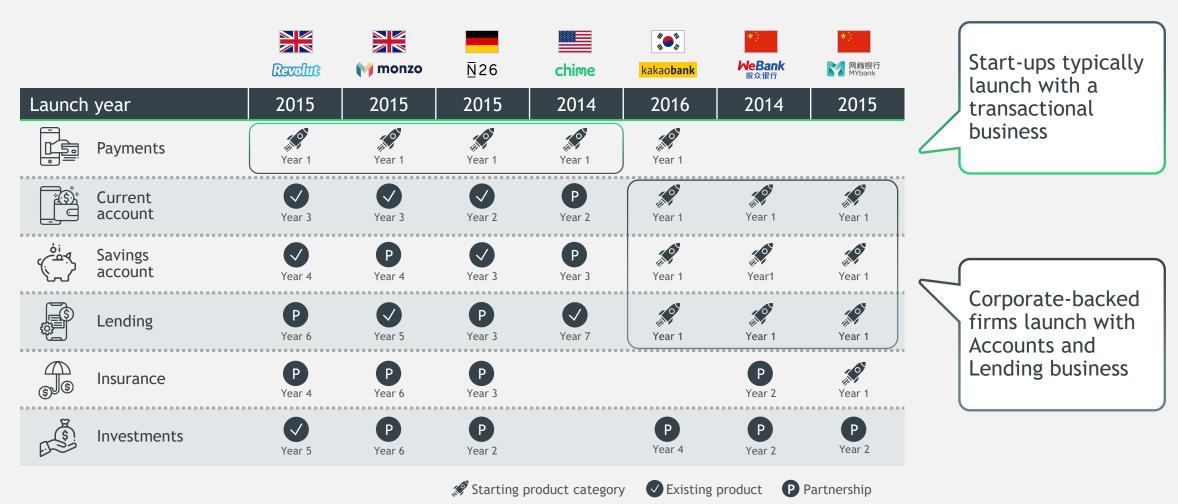


80% of our customers are acquired through our TymeKiosks, conveniently located in Tyme's key partner retailer, PicknPay. Although Tyme offers a complete digital experience, Tyme attributes its strong customer growth to its physical presence in the retailer and its Ambassadors who facilitate awareness of the products





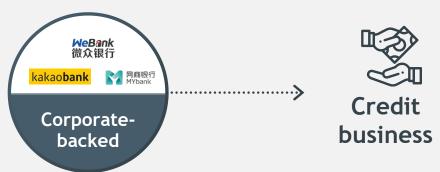
# Product Strategy | Digital Challenger Banks typically launch with a transactional or credit business



Note: Webank and Mybank are backed by Corporates with pre-existing payments business Source: Company announcements, BCG FinTech Control Tower

# Product Strategy | Start-ups and corporate-backed firms are incentivized by different factors





# **Business** priority

#### User acquisition

- Venture-funded start-ups have a strong focus on growing user base quickly, especially in the early stages
- Payment products typically have lower barriers to adoption (easy to understand and solves a clear pain point)

#### Monetization

- Typically already have access to a large customer base
- Lending products offer high profit margins and are complementary to existing services offered (e.g. online shopping)

# Branding And Trust

#### Build new brand

- Payments is a high touchpoint product with many moments of truth, aiding in brand building
- High transaction nature allows for generation of rich data sets,
   which helps to rapidly gain insights on customers and the market

### Leverage established brand

- Brand familiarity and trust enable attraction of deposits, which helps fund lending business
- Multi-dimensional and large existing user data (spending habits, credit history, financial portfolio etc.) from broader ecosystem enables crossselling and better credit risk assessment

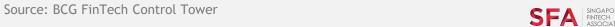
# Licensing requirements

### Start with payment license (or the equivalent)

 Go-to-market quickly with a payment license, before moving to acquire a full banking license or partner with a license holder

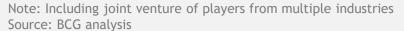
#### Start with banking license

 Go-to-market after acquiring a full banking license in order to collect deposits and provide lending products



Top 10 Digital Challenger Banks in terms of number of users







# Path-to-Profitability | Few Digital Challenger Banks globally are profitable today



<sup>1.</sup> Top 10 Digital Challenger Banks in terms of users (Consumers)
Note: Indicative timelines and not to scale
Source: BCG FinTech Control Tower



# Path-to-Profitability | Digital Challenger Banks leverage fees and interest-based revenue models

# Revenue Stream

# **Description**



Transaction fees

Collect fees when transaction amount exceeds a certain limit. Earn merchant fees when users pay with their bank card



Subscriptions

Users can upgrade from a Standard (free) plan to Premium (paid) plans typically with a monthly subscription fee, generating a more stable revenue stream for the Digital Challenger Bank



Marketplace model

Gain revenue share or referral fees by offering services of thirdparty partners through the Digital Challenger Bank's platform



Credit products

Earn interest income from lending products, funded by deposits collected from users at the cost of interest paid

Start-ups with a primarily fee-based model have been expanding into interest-based streams

> Fee based revenue streams



Interest based revenue streams



Digital Challenger Banks typically have a lower cost structure as compared to traditional banks

# App-Centric

# No-Legacy

# Branchless







Lower communication costs as SMS and outbound calls are replaced with in-App notifications and Chatbot Lower infrastructure and set-up costs by leveraging the Cloud No infrastructure and staff costs associated with having a network of physical branches

Less operational costs associated with manual processing

Modern technology stack reduces IT maintenance and product development costs

Low High

Cost Advantage



# monzo

Working towards breakeven, growing user base and expanding into overseas markets

# Case studies on path-toprofitability



Source: BCG FinTech Control Tower



Strong focus on profitability since launch, creating a "Super App" of financial and lifestyle services



Highly profitable and pursuing an "Open banking" ecosystem approach, backed by Tencent

kakao**bank** 

Achieved profitability in just the third year of launch, part of Kakao's ecosystem



# wisht @ 2020 hy, Borbon Consulting During All vights

# Path-to-Profitability | Interest income and ecosystem strategy are key contributors to profitability

#### High Contribution from Fee-Income

Monzo's revenue is mainly composed of fee-based income from transactional services, subscriptions and marketplace model

### **Costly Unit Economics**

Associated with high variable costs that drive fast customer growth, resulting in more losses as user base scale



#### **High Contribution from Interest-Income**

Kakaobank's loan book has grown constantly year-on-year since launch, and interest income is the major driver of Kakaobank's profitability

### **Low Customer Acquisition Costs**

Kakaobank leverages KakaoTalk, a popular Korean chat platform, for user acquisition at low cost and has a high Monthly Active Users of 80%

#### **Ecosystem Approach**

Kakaobank has been extending its product offerings through collaborations with related Kakao Group's companies, to drive more diversified revenue streams

kakao**bank** 

### **High Contribution from Interest-Income**

Tinkoff started with a credit card product and has now become the 2<sup>nd</sup> largest credit card issuer in Russia. Despite having launched other banking products, lending remains core to Tinkoff for customer acquisition and revenue

### **Early Focus on Profitability**

Tinkoff has not pursued a free / low-fee model to attract users, achieving better unit economics earlier on than other Digital Challenger Banks

### **Ecosystem Approach**

Tinkoff is pursuing a "Super App" concept to further drive customer transactions and engagement



#### High Contribution from Interest-Income

WeBank focuses on high volume / small ticket-sized lending products, which are a key contributor to its profitability

### **Low Customer Acquisition Costs**

WeBank leverages the extensive user base and assets of WeChat and broader Tencent ecosystem for user acquisition, allowing them to bring down the customer acquisition cost significantly

#### **Ecosystem Approach**

WeBank leverages Tencent's ecosystem to reach customers in a variety of scenarios and uses 'social data' generated from its ecosystem to do credit scoring

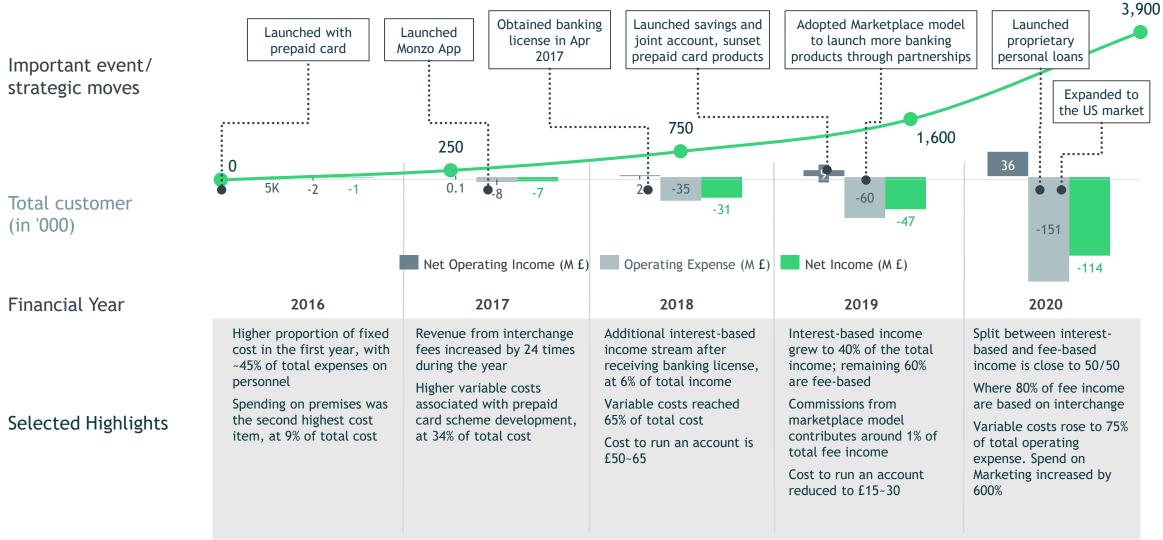






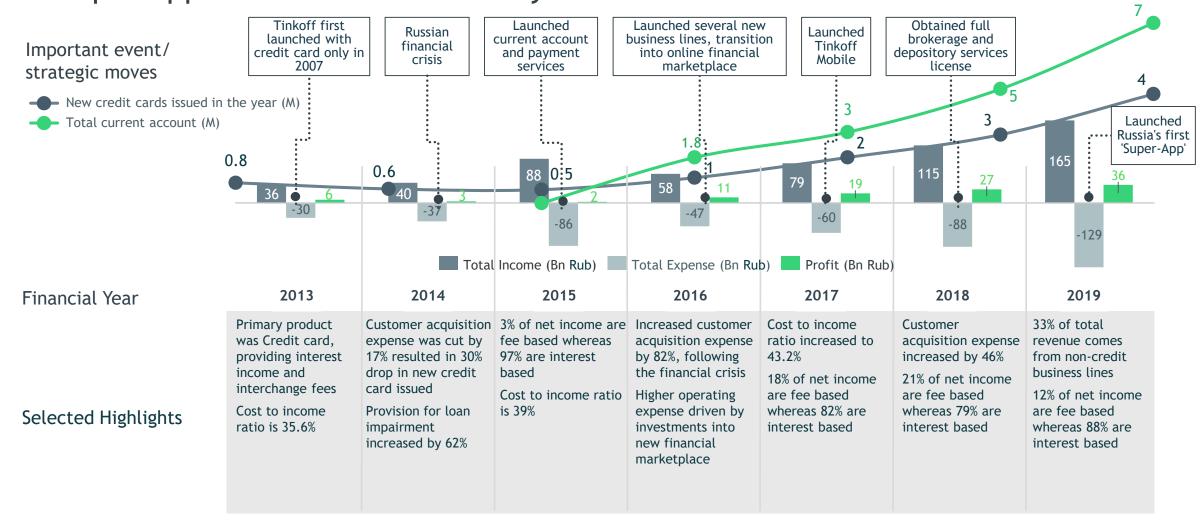


# Monzo is working towards breakeven, growing user base and expanding into overseas markets





Tinkoff has strong focus on profitability since launch and are seeking to create a "Super App" of financial and lifestyle services



Note: Tinkoff was launched in 2007

Source: BCG FinTech Control Tower, company annual reports, press releases





WeBank is highly profitable and pursuing an "Open Banking" ecosystem

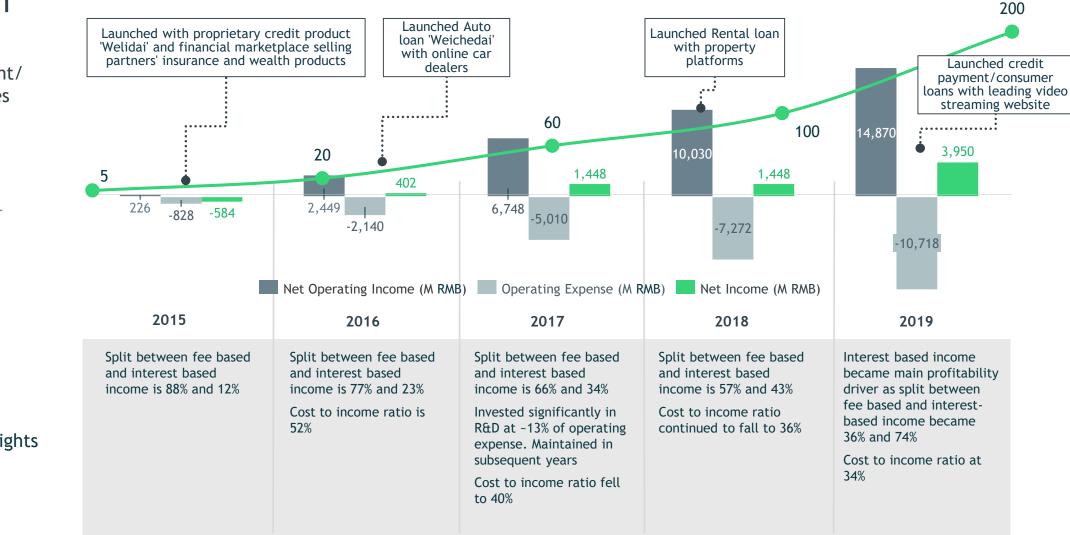
approach

Important event/ strategic moves

Total customer (in M)

Financial Year

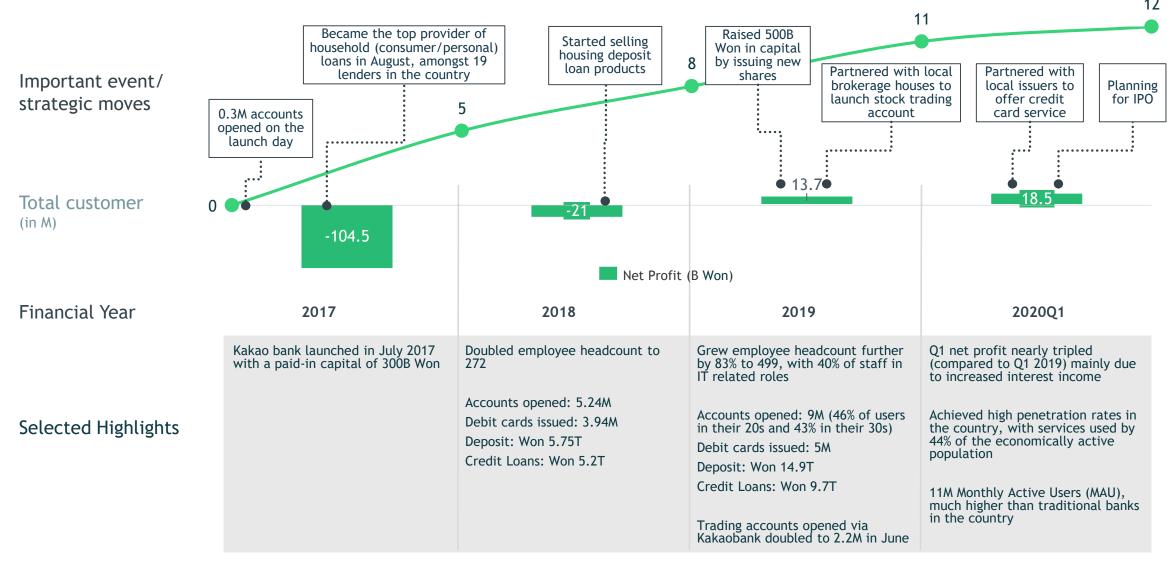
Selected Highlights



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# kakao**bank**

# Kakaobank achieved profitability in the third year from launch

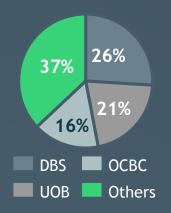


# Singapore and Potential Future State





SG incumbent banks own 63% of local market share in loans



Source: MAS; company reports; bank investor presentations; BCG FinTech Control Tower

# Singapore's incumbent banks have been upgrading their technology capabilities to cater to a new generation of digital savvy customers

# SG incumbent banks have invested in digital banking...





Launched digital banking solution DBS Digibank in Singapore in March 2016

Launched Digibank in India in April 2016 and in Indonesia in August 2017





Launched mobile payment app OCBC Pay Anyone in 2014

Launched mobile-led banking solutions in Indonesia and Malaysia, and has plans to set up a digital bank in Indonesia







Launched digital banking app UOB Mighty in November 2015

Launched digital bank TMRW in Thailand in February 2019 and Indonesia in August 2020, with plans to also launch in Singapore, Malaysia and Vietnam

## ...with rising adoption

1H20 versus 1H19 PayNow Transactions -

Retail: 2X increase

Corporates: 6X increase

1H20 versus 1H19 PayNow Transactions -

Retail: 2.4X increase

Corporates: 8.9X increase

1H20 versus 1H19 PayNow Transactions -

Retail: 2.6X increase

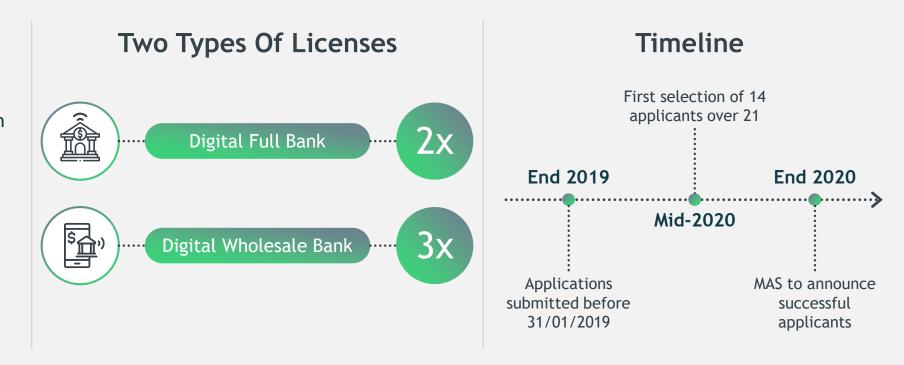
Corporates: 8.7X increase



# As a first-mover in Southeast Asia, the Monetary Authority of Singapore is granting five Digital Bank Licenses by the end of 2020

# 3 Main Objectives

- 1 Improve Financial Inclusion
- 2 Drive Innovation
- 3 Encourage Competition



# Strong market interest with 21 applications for the Digital Bank Licenses





The Monetary Authority of Singapore will issue two Digital Full Bank (DFB) Licences and three Digital Wholesale Bank (DWB) Licences at the end of 2020

# Digital Full Bank License

A DFB will be allowed to take deposits from and provide banking services to retail and non-retail customer segments













Digital Wholesale Bank License

A DWB will be allowed to take deposits from and provide banking services

to SMEs and other non-retail customer segments





















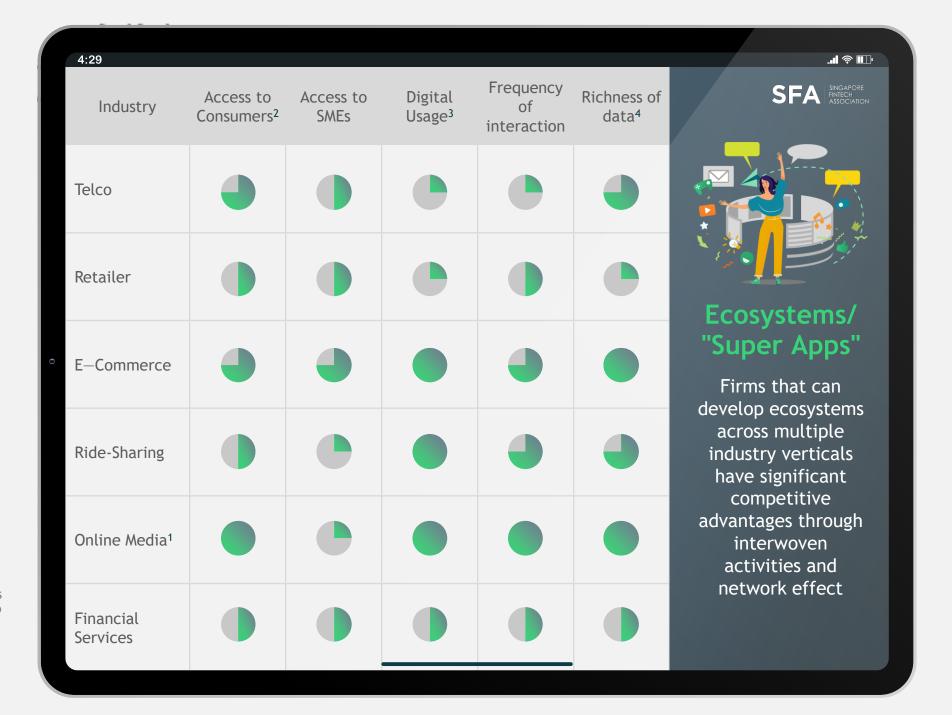
# Applicants possess a track record in financial services or other industries, forming consortiums in joint bids



# Consortiums can bring a strong combined value proposition

Note: Relative ratings considering local applicants 1. Online media includes gaming; Ride-Sharing includes Food-Delivery 2. Access to Consumers/SMEs considers existing customer relationships and ability to distribute new offerings to them 3. Digital Usage by provider to interact with customers 4. Richness of data include spend behavior, geolocation, consumption etc.

Source: BCG FinTech Control Tower



# Capabilities

# Consortiums leverage shared capabilities for crucial competitive advantages



## **Customer base**

Large user base that are digital native

High mobile penetration



# Scenario-based services

Services cover multiple aspects of customers' everyday life

High level of usage and stickiness



### **Data**

Multiple user touch-points online

Large volumes of multi-dimensional data



# Acquiring Activating

Do not need to educate users to go-digital

Able to reach and on-board customers rapidly and cheaply, especially in the initial stage

Assess to larger customer base via presence in various markets

Able to embed clear & contextual incentives to drive adoption and reinforce brand recognition & loyalty

Can create synergy through crossplatform collaborations or pursue an ecosystem strategy Monetizing

Better able to personalize propositions and monetize user data through effective crossselling and up-selling

Can leverage multi-dimensional data to enhance anti-fraud and credit risk assessment capabilities, driving down operational costs

Competitive advantages



International players view Singapore as a strategic gateway to the region due to the availability of capital, favorable business environment, strong technology and banking talent pool, a robust licensing application and vetting process provide successful applicants a credibility "brand premium

75

66

While the Singapore market alone is relatively small, the large underbanked and unbanked population in the region is a huge opportunity. With an emerging middle class and a young and digitally engaged demographic, neighboring countries are attractive markets for digital services



FinTech Control Tower



# SEA is a great opportunity for the future of banking and FinTech

Tech/FinTech companies (including some digital bank license applicants) have been using Singapore as their regional base of operations, tapping into the regional economic opportunity in SEA

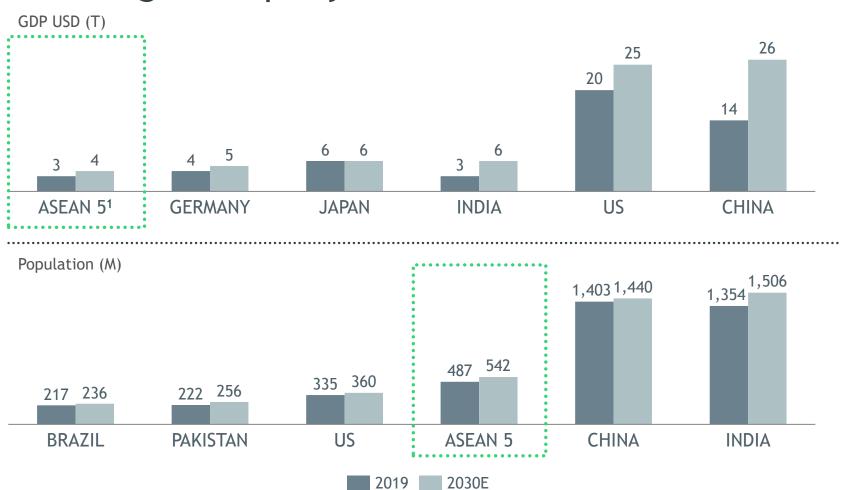


Selected examples			
Tech/eCommerce	Grab	Shopee	<b>V</b> Lazada
FinTech	\(\Lambda\)DVANCE,\(\Lambda\)	gobear	funding societies
Digital Challenger Ba	anks <b>to</b> l	าiห 🏠	aspire



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# Opportunity in SEA is tremendous as the market is set to grow rapidly



1. ASEAN 5 includes Indonesia, Malaysia, Philippines, Singapore and Thailand Source: IMF; BCG Analysis, BCG FinTech Control Tower



GDP for major SEA countries (Indonesia, Malaysia, the Philippines, Singapore and Thailand) could reach USD 4.3trn by 2030, which would make it the sixthlargest economic block globally. By 2030, SEA's population of 542m people will be behind only the EU, India and China

# Banking penetration in SEA, which varies across countries, is growing but remains low



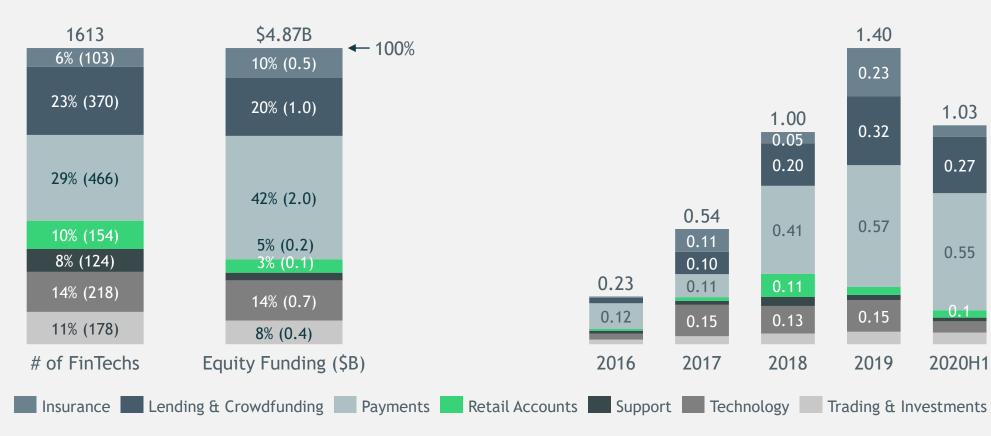
Indonesia has the fastest-growing bank account penetration rates, with almost 150% increase between 2011 and 2017



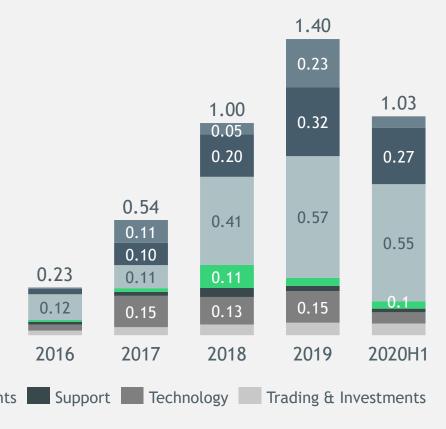
Account usage remains low across the region, particularly borrowing

# SEA has emerged as a FinTech hotspot, with bulk of funding going to Payments & Lending

Number of FinTechs & Total equity funding by Products since 2000, SEA (\$B)

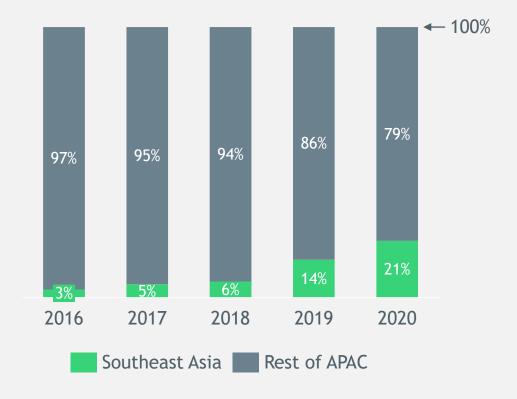


Annual equity funding in SEA by Products (\$B) 2016-2020H1

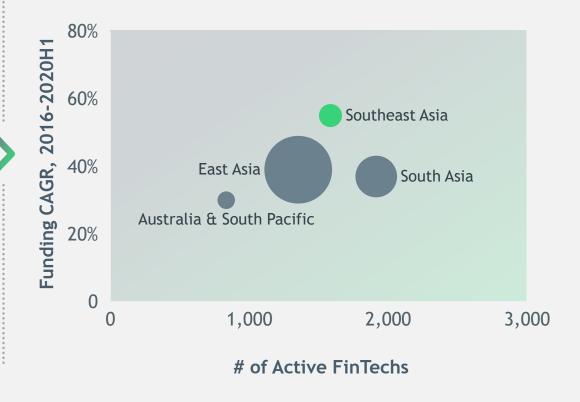


# FinTechs in SEA are gaining an increasing share of equity funding in APAC, and growing faster than any other area in the region

SEA equity funding vs rest of APAC, excluding Ant Financial<sup>1</sup> (%, \$B)



Cumulative equity funding CAGR<sup>2</sup> in APAC by region, 2016-2020H1, excluding Ant Financial<sup>1</sup>





<sup>1.</sup> Excluding Ant Financial funding rounds (\$4.5B, 2016; \$14B, 2018)

<sup>2.</sup> Size of bubble represents total equity funding Source: BCG FinTech Control Tower

# Current landscape that is rapidly evolving...

...with new players entering

The future of banking in SEA will consist of a myriad of providers and innovative models benefiting customers

**Players** 

**Markets** 



Incumbent banks have a head start in launching digital banking in the region







SEA has attracted both global leading players as well as homegrown FinTech Startups







Digital Challenger Banks have partnered with incumbent banks to launch







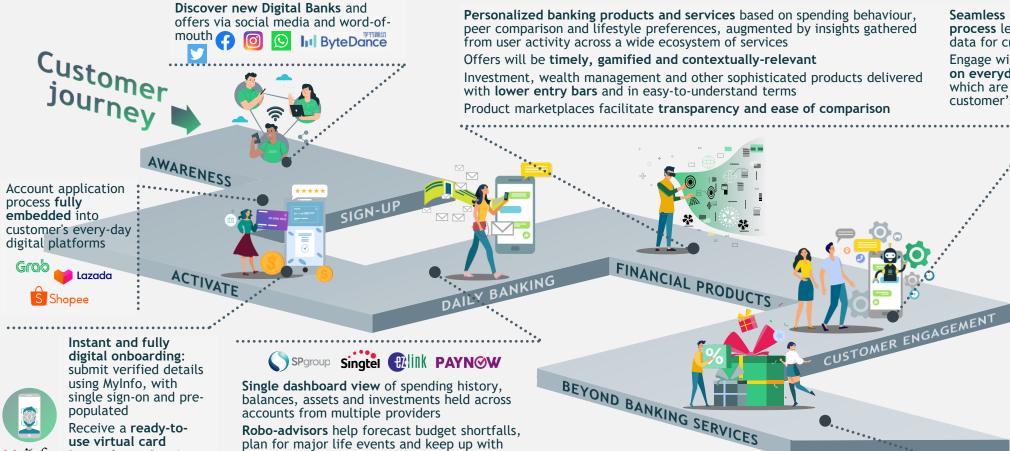
New Digital Banking License will bring consortium players to join the competition

5 licenses to be issued in Singapore and Malaysia





# The future of banking in Southeast Asia has already begun



Seamless credit application process leveraging alternative data for credit scoring

Engage with financial services on everyday digital platforms, which are embedded into the customer's scenario-of-need



use virtual card Myinfo instantly, and activate later a secure physical

> **Customized lovalty** and rewards program at point of activation

card with 'one-tap'

plan for major life events and keep up with savings goals. Automatically round up spare change to be set aside for an investments pot

Seamless payments via biometric recognition technologies

Automatic discounts based on purchasing decisions / early loan repayments

Personalized and Alpowered channels, where interactions are designed to appeal to individual preferences

24/7 support via hybrid call centers augmented with Chatbots, resolving most gueries instantly

Robo-advisors providing personalized financial education and planning







Access an ecosystem of non-FI services that are complementary to banking: lifestyle and e-Commerce services for individuals, and enterprise management software or productivity tools for businesses

Receive 'best-deal' offers on lifestyle products, based on spending habits, lifestyle preferences and geolocation

Note: Illustrative purposes only Source: BCG FinTech Control Tower

# Profiles



Digital Challenger Banks





Technology Enablers











Banks and SME software ecosystems are disconnected. At Aspire we are connecting banking services with SaaS and creating an integrated solution. As financial operating system layer for businesses.





# What is the founding vision of Aspire?

Aspire is building better banking products for a new generation of digital-savvy business owners and entrepreneurs who are not satisfied with existing offerings and who are unfairly underserved by incumbents.

## How does Aspire differentiate itself from others?

Aspire put together a unique proposition combining business account streamlined payment functionalities such as expense management, corporate cards and cash flow insights together with flexible and fast credit offerings which is essential for SMEs. Lending is a segregated part of Aspire's business model which is funded by alternative funds and financial institutions with a unique risk appetite for SMEs, rather than from customers deposits like a bank.

# What are Aspire's expansion plans in the near future?

Aspire operates its credit business in collaboration with local credit partners across Singapore, Indonesia, Vietnam, Thailand with a particular focus on e-commerce, green energy and logistic ecosystems. Recently Aspire launched its transaction business banking product live in Singapore and in beta in Indonesia. Aspire will continue to build functionalities around its customer needs supporting their end-to-end cash flow management from revenues pay-in, to credit cash advances and expenses management.







Building a scalable marketplace banking infrastructure for SMEs to use third party financial services



2018

Founded



**USD 41.5M** 

Funding Raised



10k+ SMEs

Users (Aug-2020)



Countries (Singapore, Thailand, Vietnam & Indonesia)

#### **Products offered:**









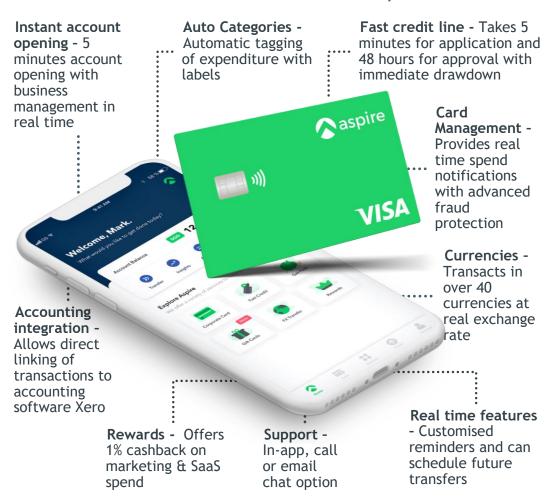




Source: BCG FinTech Control Tower, company websites, press releases / research

# Aspire provides banking services to SMEs to aid their growth

Tools and features for SMEs and start-ups



### Partnerships:

# <sup>2</sup>/TransferWise

To allow low-cost international money transfer services directly on their transaction accounts





To offer corporate cards to SME customers. Aspire will use NIUM's API solution for card issuance



To provide business owners with working capital loans of up to SGD 100k within 3 hours of application







Our priority is to provide a solution that is nimble and flexible, and most importantly that works in real-time.



**Eric Mouilleron**Founder and CEO of Bankable

# Why did you decide to found Bankable?

Bankable started 10 years ago as one of the first BaaS companies, to help traditional banks evolve from rigid layers of legacy systems to more flexible & modular architectures leveraging Bankable's platform. Around 2011, with the rise of mobile use, Bankable saw a tremendous opportunity to provide a comprehensive platform combining seamlessly core banking and processor features for a wide range of customers (individuals, SMEs, etc.)

## What is Bankable's partnership model?

Bankable relies on partner banks for their licenses. It is a one stop shop: FinTechs can simply work with Bankable rather than reach out to each individual bank, freeing up their capacity to focus on other parts of their work, like their go-to-market strategy, clients or distribution channels. Bankable also acts as an integration and service layer giving FinTechs access under a single contract approach to a fully serviced model integrating all the necessary financial and ancillary services for the implementation and operation of financial programs (FX, global payments, AML & Fraud management solutions and control frameworks, card manufacturing, online KYC solutions, etc.)

# Has Bankable looked towards expanding in APAC, in which BaaS is far less common than in the US or EMEA?

Bankable recently signed a partnership with Visa to explore its goal of serving clients across the U.S., EMEA and APAC via a single contract. There is demand in APAC for an end-to-end solution, especially something with a good front-end experience, which Bankable is now building. The team is excited by APAC's appetite to be a first-mover, and to improve on already good IT systems.







# Provides full turnkey payment solutions under a BaaS model





2010

Founded



1

Round of funding in May 2019 with Visa as sole investor



N/A

Users (Sept-2020)



5

Countries (UK, Europe, USA, UAE, Singapore)

#### Products offered (as-a-service):













Intl.





Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

# Bankable provides white-label payment and digital banking solutions

White-label solutions and APIs helping corporates and FIs deploy their own

solutions

# Virtual Ledger Manager Unlimited virtual accounts with enhanced cash management and reconciliations

Payments
processing Allows payment
processing for
accounts, virtual
accounts,
wallets & cards

Payment cards -Deploy global corporate or consumer cards with expense management and youth spending capabilities

### Digital banking -Launch a Digital Bank with multicurrency account and payment features

plug-ins ..... Provides access to online compliance services

Payment channels
Includes domestic
ACHs, international
bank transfers,
cards, cash at
branches or partner
stores and
alternative
payment means

**KYC** and AML

E-wallets -API to manage payments flows for marketplaces in multiple currencies

### Partnerships:



Enable Visa members to leverage Visa products and innovation (multi-currency, tokenization, etc.)



Use of Plaid's API to connect with their users' bank accounts worldwide



Gain access to Euro payment rails and power Agency Banking solutions







Technology and Mobile are game changers for Banking. They enable more services to be delivered at a fraction of the cost.



**Cédric Jeannot**Co-Founder of Be Financial Group

# What is the founding vision of Be Mobile?

Be Financial Group (B2B - parent company) started as a technology company focusing on building tech that can be used to quickly launch a digital banking platform. Be Mobile (B2C) focuses on underbanked and unbanked segments in Africa facilitating cross border micro-payments, remittances, cash management and micro-lending.

# What was the bank's customer acquisition strategy?

With Be Mobile being a mobile-first offering, most of the customers are targeted online. In cases where this cannot be done, an "Agent feature" is adopted where an agent initiates the KYC verification and then directly downloads the app from app store for the customer in remote parts of the country. Receiving payments is expensive due to infrastructure costs: to combat this, merchants are incentivised to use the Be Mobile Platform which also helps in word of mouth marketing.

# How has Be Mobile differentiated its offering?

The "Bank in a Box" includes a multitude of services, which makes opening an account within minutes possible with a state of the art e-KYC process where only a photo of an ID is required. Also, the cost of remittance is extremely low compared to other players operating in the region with no foreign exchange fees. The "Send money", "Request money" (Micro-Payments using QR code) feature allows users to send money instantly to any customer which is available to the recipient in a matter of seconds.





# A bank for unbanked and underbanked Africans



# Be Mobile offers banking services like money transfer to Africans through a mobile phone

Tools and features for retail customers



2019

Founded



N/A

**Funding Raised** 



N/A

Users (Sept-2020)



African Countries

#### **Products offered:**







Remote Account opening -Opening an account is free from mobile phone by taking a selfie and a photo of passport or official

QR code payment-Users can make payments by scanning QR codes or using only a phone number at partner shops and transfer and request money instantly for free



Remittance Send money
overseas at a
fraction of cost
and receive
money in a bank
account or at a
cash collection
point

FX services -Supports these currencies: USD, EUR, GBP, CAD, MUR, ZAR, KES, MGA, MWK, MZN, SCR, TZS, UGX, ZMW

### Core Banking System:



Be Financial Group, holding company of Be Mobile







bunq's focus since inception in 2012 has been to create products users love to use. By saving time, money and CO2 we make our user's life easy.



Gerald Gruber
Head of Business Development of bung

# How does bung's vision and strategy differ from other Digital Challenger Banks in the EU, such as Revolut and Monzo?

bunq is famous for its focus on users. We make life easy and help our users save time, money and CO2. By having an intimate bond with our users, we have a great community that gives us insights in how we can make products that people love.

# How has bung fared in the face of Covid-19?

bunq is modern on every front; in our products, in our technology and in our organization. When Covid-19, began it was easy for us to work from home whilst continuing to deliver great services for our users, without any interruptions. On top of that, bunq has been advocating sustainable business models for years. As such, bunq has a healthy business based on subscription revenues. This allowed us to continue to serve our users with lots of new great features, such as easy budgeting, via two new bunq updates, and lots of other great things that make life easy.

As with many new players, bunq has recently moved into the mortgage lending space. Is it fair to consider that lending is key to the long-term viability of a Digital Challenger Bank?

bunq is actually the first European Challenger Bank to offer mortgages, which is something that we are incredible proud of and something that hit the headlines a while back when it was announced. We believe long-term viability stems from our mindset of sustainability. Our subscriptions really are at the core of that.









Provides Open API to individual and business users to develop their own apps for financial services



2012

Founded

2014 Dutch banking license



**USD 111M** 

Funding Raised (fully pledged by founder)



N/A Users (Sep-2020)

S788M **User Deposits** (Sep-2020)



30

Countries (European Union)

#### **Products offered:**



account

Debit

Card







transfers



Open Banking

Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

# bung is a fully mobile bank for personal and business users

Tools and features for business and retail customers

Onboarding - 30 second sign-

up directly via phone

Multiple sub accounts - each with unique IBAN ..... for easy budgeting **ZeroFX** - save up to 3% on fees for

non-Euro spend

Personal payment link the easiest way to get paid

Freedom of choice - bung is the only bank in the world that lets you decide how your money is invested

App control - In-app savings automation, card management and Home easy budgeting helping users save money Accounting -Auto VAT My accounts

calculation. invoice scanning, ····· real-time bookkeeping and many other features that save time

**Trees** - Become CO2 free simply by using your ····· bung Card. On average users can be CO2 free in just 2 years!

### Core Banking System:

Developed in-house

#### Partnerships:

#### **TransferWise**

To enable customers to make fast, low-cost international payments at real exchange rates



#### mastercard

Use its network to speed up the growth of bung's card offerings in Europe



To provide Al-powered identity verification and user reauthentication



edenprojects.org

Tree to be planted for every €100 of spend



€ bung.me

€ 5.251,00

buna

Maestro and Mastercard - Up to 3 cards

users can pay anytime, anywhere

are included in a Business subscription, so



### How has DBS transformed banking in Asia?

DBS embarked on its digital transformation programme in 2014, and it has since been recognised as one of the most comprehensive for a bank anywhere in the world, encompassing journey thinking, culture change, and a measurement methodology that quantifies the impact of it digital transformation on its bottom-line. Its digital transformation encompasses:

- Being digital to the core being a technology company that does banking instead of a traditional bank looking to digitalise: owning its technology now 90% insourced -- and being cloud-native.
- Embracing journey thinking embedding ourselves in the customer journey through digital innovation or ecosystem partnerships, so that banking is simple, seamless and effortless.
- Becoming a 29,000-person startup effecting culture change to inculcate a start-up mindset and encourage a spirit of experimentation and innovation driven by data

The new architecture enables DBS to leverage APIs to establish simple and speedy connectivity. In 2017, DBS launched the world's largest API platform for a bank to enable developers and businesses to plug into their technologies. Beyond APIs, DBS has built up capabilities that combine predictive analytics and customercentric design to transform data into hyper-personalised, intuitive, and unobtrusive insights that simplify the way customers manage their finances and investments. The bank has been embedding itself in the customer journey through digital innovation or ecosystem partnerships, so that banking is simplified, seamless and effortless for customers.

### Are you seeing the new entrants as a threat?

New entrants into any market indefinitely increases competition. In addition, it is likely that they will be free from the burden of legacy and have access to large resources. However, it may not be easy for new entrants to be successful in the short or medium term because of a few factors:

- 1. There are no obvious underserved segments in Singapore the banking market is not a large market and banking penetration is high, at over 98%;
- 2. Incumbents, including DBS, have made credible strides in their own digital offerings over the past few years and new entrants may not find it easy to create very differentiated offerings;
- 3. Once the players reach a certain minimum size, the capital requirements are sizeable, and the onus for regulatory compliance will create challenges and;
- 4. Regulators seem unwilling to support predatory pricing.

Source: BCG/Expand FinTech Control Tower

## How have you transitioned into engaging with physical customers digitally?

At the time of writing, the Covid-19 pandemic continues to impact countries globally. As governments impose movement restrictions, the nature of banking has had to undergo rapid transformation. Managing this requires efficient and resilient systems in place, not only to address exponentially increased demand for digital banking services from customers. DBS is well-positioned to cater for this, having begun its digital transformation ahead of many of its peers, enabling it to implement or enhance various processes to provide even more comprehensive banking services to businesses and individuals. Its digital transaction offerings, which have been continuously refined throughout the years, saw a significant uptick in usage. Its market leading DBS PayLah! everyday app saw a 26% y-o-y increase in usage as more customers turned to digital payments. Outgoing retail PayNow transactions across its mobile apps doubled in 1Q20, from 1Q19, reaching 16.4 million transactions, while outgoing corporate PayNow transactions increased six-fold over the same period, to 905,000.







# A phygital model implemented in every cycle of consumption





1968

Founded



N/A

**Funding** 



Over 11M

Users (Dec 2019)



16

Countries (APAC 13, EMEA 2, Americas 1)

### **Products offered:**















(S)











**Funds** 

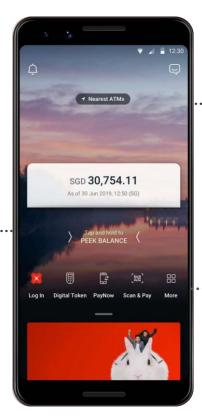
Source: BCG/Expand FinTech Control Tower, company websites, press releases / research



# DBS: Embedding itself into the customer journey I/II

DBS' focus on the customer journey not only improves customer experience, it also allows DBS to create simple, suitable products for the mass market, products which would have been bespoke to affluent customers in the past. As of end-2019:

DBS digiPortfolio, an in-house hybrid human-robo investment solution introduced to retail customers in late 2019. Starting at a low investment amount of only SGD 1,000, retail customers can now instantly gain access to a diversified portfolio that provides exposure to various stock markets and asset classes with no prequalification necessary. The portfolios comprise carefully selected exchange traded funds (ETF) and are reviewed quarterly in alignment with the DBS Chief Investment Office's views. DBS has also simplified the fee structure to eliminate sales charges, transaction or custody fees. Democratising access to financial investments is key not only to reducing the wealth inequality gap but also ensuring the communities DBS is in are wellcovered for retirement as lifespans increase



In a similar vein, DBS provides digital insurance solutions, making it easy for customers to obtain cover for important areas of their lives with minimum fuss. One such area is cancer cover, which can be purchased online without the need for a health check

In 2019, also expanded the number of partners on DBS PayLah! app to provide a wider range of everyday services, encompassing transportation, food, shopping, entertainment and bill payments - with an increase of SGD 1B in total transactions



## **DBS**

#### **Partnerships**



As of end-2019, DBS expanded the number of partners on its PayLah! app to provide a wider range of everyday

services, encompassing transportation, food, shopping, entertainment and bill payments - with an increase of SGD 1B in total transactions. Ecosystem partnerships with e-commerce, telecommunication and loan aggregator companies in Indonesia and India also showed promising outcomes, contributing to more than 30% of unsecured loan origination for digibank Indonesia and adding more than 50,000 new accounts to digibank India. DBS Property and Car Marketplaces generated over SGD 500M in loans across Singapore, Taiwan and Hong Kong markets

Continued to have one of the world's largest banking API platforms, with over 500 published APIs. This has allowed DBS to accelerate its API connectivity with more than 400 partners across various industries

Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

### DBS: Embedding itself into the customer journey II/II

DBS' focus on the customer journey not only improves customer experience, it also allows DBS to create simple, suitable products for the mass market, products which would have been bespoke to affluent customers in the past. As of end-2019:

In India and Indonesia, DBS has 3.25M digibank customers - customers who opened accounts with DBS using their smartphones. The ability to offer banking in a phone aids financial inclusion, especially in large geographies, where many remain underbanked. Our ecosystem partnerships with e-commerce, telecommunication and loan aggregator companies in these two markets also showed promising outcomes. These partnerships added more than 50,000 new accounts to digibank India in 2019. Over in Indonesia, the digibank Personal Loan service offers an in-principle credit decision in less than 60 seconds for both served and underserved segments of the populations. This digital journey continues to leverage on the algorithmic lending and credit score model based on telecommunications data built the vear before and contributed to more than 30% of unsecured loan origination for the market



For corporate customers, developed and launched DBS MAX, a seamless and instant payment collection solution for merchants across Singapore, Hong Kong and India. Saw rapid adoption of the solution with more than 7,000 merchants generating approximately 200,000 transactions over a short 10-month period

Convenient payment and collection solutions for customers have resulted in a reduction in physical cash transactions, with retail banking achieving a 14% reduction and corporate banking achieving a 23% reduction in physical cash transactions at branches





73



Fidor

Fidor offers an end-to-end solution that covers a client's business, technical, operational and customer journey needs.



**Ge Drossaert**CEO of Fidor

#### What is Fidor's founding vision as a venture bank?

Fidor was founded in 2009 as the world's first 'FinTech bank', with a vision of giving consumers a more connected, personal and rewarding banking experience. To do so, it developed FidorOS, a digital banking platform powered by open APIs which allows digital brands, developers and FinTechs to plug into its platform to offer their own financial products.

## How does Fidor differentiate itself from other Digital Challenger Banks?

Fidor provides a true end-to-end solution. The Fidor Group has expertise in financial services, consulting, API and Open Banking and customer engagement. It leverages this to guide clients from designing their own Digital Challenger Bank to recruiting their first 1,000 customers and eventually using Fidor's technology to run their own bank.

Fidor also offers partnership opportunities via inception workshops, Fidor Digital Platform and Fidor Market. Fidor Market is a direct-to-consumers digital store for FinTech, InsureTech and TradeTech offerings that allows clients to market new products without having to build everything themselves.

#### What are some of Fidor's winning factors?

Fidor's technology and methodology allow clients to quickly launch any digital offering while ensuring their long-term business success. For example, each project begins with a comprehensive feasibility process, through which it aligns with stakeholders on the scope, objectives and feasibility of building a Digital Challenger Bank. Fidor also leverages the experiences of building its own bank, as well as other Digital Challenger Banks that it has created with clients.





Helps design, build and run Digital Challenger Banks along with running a challenger bank itself



2009

EU banking license

2009



USD 148.5M

Paid by Groupe BPCE to acquire Fidor



380k Account holders (Jan 2019)

Registered community users (Jan 2019)



Countries (Germany, Singapore & UAE)

#### **Products offered:**



account





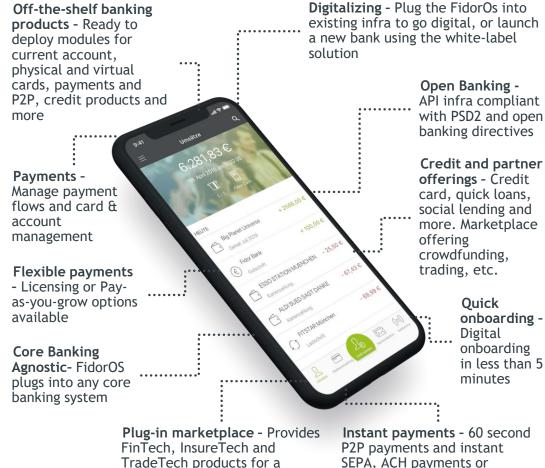


platform

Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

## Fidor offers digital banking services as well as whitelabel banking solutions

Tools and features for retail clients and financial, retail and telecom institutions



API infra compliant with PSD2 and open

more. Marketplace

onboarding in less than 5

SEPA, ACH payments or country-specific transfers

#### Core Banking System:

FidorOS built in-house

#### Partnerships:



Integrated Konsentus' Third Party Providers identification platform into FidorOS



Collaborated to launch a new Al-powered chatbot for banks



Partnered with Eight Inc. to jointly design the customer experience for Fidor's marketplace



client's customers







There is a real opportunity to better serve SMEs and help drive financial inclusion across Southeast Asia.



#### **Kelvin Teo**

Co-Founder and Group CEO of Funding Societies | Modalku

## Why did Funding Societies decide to team up in a consortium to apply for a Digital Wholesale Banking License?

Our consortium is comprised of Funding Societies, AMTD Group, SP Group ("Singapore Power") and Xiaomi Corporation. By combining our strength, network and expertise, we bring to bear a highly competitive offering to serve SMEs. With a shared vision to be the engine of growth for SMEs, we look to meet SMEs' holistic needs across all their life stages in Singapore, Southeast Asia and Greater China through technology and innovation, accelerating financial inclusion.

#### What is different about the licensing approach in Singapore?

In Singapore, the MAS has taken a calibrated approach, with 2 digital full bank and 3 digital wholesale bank licenses to be granted. The application process is characteristically rigorous, whereby applicants must demonstrate clear value propositions to meet under-served needs and a "path towards profitability" attested by a Big 4 audit firm. The approach finely balances the need to encourage innovation and minimise the risk of unhealthy competition and banks.

#### How will FinTech evolve in the SEA region?

While FinTech is a relatively young space in SEA compared to other parts of the world, it is increasingly viewed as a critical channel for governments to reach SMEs and consumers, including government financial support. In addition, FinTech presents an alternative form of financial services in complement with incumbent financial institutions. Overall, FinTech would progressively contribute to financial inclusion, expand the pie and drive societal growth.





Specialize in all forms of short-term SME financing, funded by individual and institutional investors



2015
Founded

Launched in Indonesia in 2016 and Malaysia in 2017



USD 40M

Series C Funding



170k
No. of registered investors

SGD1.8B Total loans funded (Oct 2020)



4

Countries (Singapore, Malaysia, Indonesia and Thailand)

#### **Products offered:**







Term

Trade Finance Micro

Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

## Funding Societies | Modalku is a leading SME digital financing platform in Southeast Asia

Tools and features for SME borrowers, and individual and institutional investors





Serve merchants within

partner ecosystem



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Grasshopper plays a role in providing resources to entrepreneurs, including matching investors with companies and partners with funds, and other stakeholders that lead to an entrepreneur's success.



Judith Erwin CEO of Grasshopper Bank

#### What was the vision behind founding Grasshopper as a venture bank?

Grasshopper seeks to support all entrepreneurs and their investors. This includes venture-backed companies, bootstrapped innovation companies as well as emerging managers and VC/PE firms. These potential clients may not yet have a true banking partner during their earliest days. Such companies face three main pain points: (i) long turnarounds in opening traditional bank accounts due to AML and KYC, (ii) expensive wire transfers fees charged by banks, whereas Grasshopper's system means that such same-day transfers cost \$1 instead of \$25 usually charged by banks, and (iii) lack of expertise in the VC ecosystem as well as capital management.

#### Why apply for a Digital Banking Licence?

Rather than simply relying on interchange revenue or small deposit fees as Digital Challenger Banks do, Grasshopper has multiple revenue levers such as the ability to lend and charge interest funded by inexpensive deposits. This allows the bank to build a sustainable business model. The banking license also enables Grasshopper to offer the full spectrum of banking products and services an entrepreneur may need throughout their company's journey. It's a bank you don't need to grow out of (unlike many fintech players). Grasshopper applied for a license in October 2017, when regulators had never been confronted to similar players in the past. Hence, the OCC and the FDIC really inspected how Grasshopper conduct loan monitoring or ensure cybersecurity and overall compliance. Eventually, Grasshopper received approval in April 2019, in part due to its board's experience in the banking industry.

#### What is Grasshopper's business model to ensure profitability?

While traditional banks often have high fixed costs, which make it difficult to shrink business during downturn, Grasshopper operates on a largely variable cost structure. In terms of profit, its income comes from the arbitrage between the deposits our clients make and the loans they take. Other revenue pools include foreign exchange, letters of credit, credit and debit cards and currently exploring a subscription model in the future.







Delivers digital banking solutions to innovation economy companies and the venture capital firms that back these companies



2016
Founded

2019

Full banking license



**USD 133M** 

**Funding Raised** 



≈**200** 

Users (Nov 2020)



1

Country (United States)

#### **Products offered:**













Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

## Grasshopper Bank provides commercial banking products and services to businesses

Tools and features helping businesses and their investors to manage financial

operations efficiently

Checking account No min. balance and
with online banking, .....
ACH and bulk
payments facility

User friendly interface - Provides easy money transfer service, account location information and shows up-to-date account activity

Forecasting tools-Shows various business expenses scenarios and its effects on fundraising and operations

> Value added services and products -Standby Letters of Credit and other loans and facilities for startups and VC & PE firms

Account Overview

Deposit Accounts

**Checking Account** 

Loan Accounts

Revolving Line of Credit (RLOC)

User controls and oversight - Allows for management of user roles and permissions by setting limits and restrictions

Quick check deposits Provides 24/7 mobile
check deposits into
checking and savings
account

Enhanced SecurityMulti factor
•authentication ensures
account safety and
privacy

'Free banking'- No minimum deposit required, transaction charges or hidden fees, and free domestic and international wire payments

#### Core Banking System:



Selected Temenos for its cloudnative, interoperable and open API architecture



....







Hay has had the benefit of working with great technical partners, allowing it to concentrate on its strengths rather than hygiene factors, bringing something truly special to market, in a remarkably short time.



Jason Latham CTO of Hay

#### What was the founding vision behind Hay?

Hay was founded with the aim of building world-leading digital infrastructure that provides Australians with a mobile-first money solution, and that puts control back into their hands. Ultimately, Hay's aim is to bring fast, simplified, mobile banking to users.

#### What is Hay's acquisition strategy for its target customers?

Hay attracts a strong following of millennials and young professionals, because of its digital offering, instant service and modern interface. Hay provides a truly world-class customer experience: customers may securely open an account in under 5 minutes. We provide personal financial management tools focused on managing cost of living and budgeting, and charge zero monthly account fees, foreign transaction fees or currency conversion fees. Equally important is our back-end: we have a robust transactional infrastructure which facilitates design and features iteration. This allows us to service our customers' needs transparently, efficiently and securely.

#### Could you tell us about the Hay-as-a-Service platform?

Before we could build Hay we had to look at the requirements that would suit the product and experience we wanted to deliver. We couldn't find what we were looking for so we decided to build rather than buy and partner with best-in-class suppliers. Hay-as-a-Service (HaaS) is the result. A cloud-native, micro-services, API-first platform built for flexibility, scale and speed. This enables our clients to provide a fully managed offering, whereby services can be bundled and orchestrated to support their bespoke system requirements. We also assist clients with payment processing and management, provide customized data analytics and insights and help with customer onboarding via anti-money laundering checks and e-KYC checks, among other features.







Uses the New Payment Platform to provide instant money transfer service with real time notifications on user's smartphone / wearable device



2018

Founded



2019

**Granted AFSL** (Australian Financial Services license)

Awaiting approval for a RADI (Restricted Authorized Deposittaking Institute license), which will open the way for it to become a fullyfledged Challenger Bank



**AUD \$10M** 

Expected amount raised in Series C



10k+

Users (Sep-2020)



Countries (Australia, United Kingdom)

#### **Products offered:**



account

Prepaid



Intl. transfers

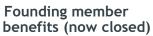
Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

### Hay provides an app-based digital transaction account with prepaid Visa card to retail users

Tools and features for individuals

TinyBig Rewards - Rewards users by giving 1% cashback on everyday purchases \$10 or less for the life of their account for 1 referred open account.

Instant account opening -Allows users to open a fee-free account in 5 minutes



- First 10,000 account holders will receive a limited-edition card and early access to features

#### In app card security features -

Allows freezing, unfreezing of physical and digital cards instantly with a swipe



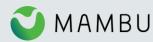
**Zero fees - Charges** no setup, foreign transaction, currency conversion, monthly, transfer, withdrawal or dishonour fees

Real time notifications and chat support -Provides real-time push notifications and human chat support without waiting

Spending insights -Categorises transactions and provides spending analysis

Smart travel mode -Tracks overseas spending, shows balance in local currency and Australian currency, and provides detailed transaction data

#### Core Banking System:



Incorporated Mambu's API-first, core-banking platform into its custom-built ecosystem, to allow it to develop a wider suite of digital banking products this year

#### Partnerships:

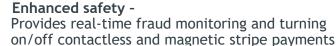
FEATURE

SPACE

Selected Feature Space's ARIC Risk Hub to help identify and prevent fraudulent financial activities on its mobile app



AWS to supply cloud computing services





....







Our priority is to make it simple and cost effective for businesses to expand globally while going local everywhere around the world.



Joel Yarbrough
VP Asia Pacific at Rapyd

#### What is the founding vision of Rapyd?

Rapyd is a "FinTech-as-a-Service" platform that provides both a global payments network to unlock all locally-preferred payment methods around the world and a product platform that enables B2B customers to collect or disburse funds, manage multi-currency wallets, issue payment cards, complete compliance obligations, and build new solutions from simple eCommerce and B2B payments, to marketplaces and super-apps.

#### What is the interest in Digital Challenger Banks in Southeast Asia?

On the small business side, SME's are truly underserved in Southeast Asia which is where digital banking can solve real problems, particularly around access to credit. On the retail side, there is a lot of hunger amongst a fairly tech-savvy mass market for new solutions that are mobile-first and respect peoples' familiarity with technology to provide service in a way that is just as real-time, social, and innovative as the people in this region.

#### Is there a "Brand Premium" associated with Singapore?

Singapore provides a great location, access to capital, access to talent and a positive regulatory climate that makes it a great place to anchor and build a business. The ASEAN region overall has a lot of interaction and positive internal competition that builds extends that Singapore spirit, and has built a vibrant region overall.



## Rapyd

Locally-preferred payments in over 100 countries accessible via a single integration with built-in compliance, fraud, and foreign exchange management



### Rapyd provides FinTech and payment capabilities embedded into client's applications

Tools and features for banks, e-commerce companies and marketplaces

2016

Founded



**USD 170M** 

Funding Raised



N/A

Users (Aug-2020)



100+

Countries

#### **Products offered:**



Issuing

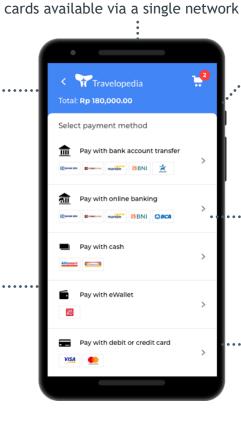






Seamless money transfer- Accepts and disburses payments to over ...... 900 payment types in over 100 countries

Built-in compliance and fraud prevention -Integrated monitoring and rules platform to manage risks and offer identity verification, AML / CTF, sanction screening, and transaction management tools



Global Network - Portfolio of e-

wallets, bank transfers, cash and local

Advanced client portal - Provides real . time transaction initiation, reporting, and monitoring

Offline to Online -Connects to over 2m ATMs and stores across the globe

Simplified local and cross border commerce- Provides fast and easy FX, settlement in over 65 currencies

#### Partnerships:



To launch a business wallet and a complementary Mastercard payment card for real estate salespersons of ERA Singapore





To expand worldwide payment and payout capabilities for clients and make entry into new markets faster



To expand PayMyTuition's payment options so as to receive tuition funds in local currency via Rapyd's single API





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When building the bank, 20% of my energy was spent on technology aspects and 80% on risk, compliance and customer support.



Joaquin Ayuso General Manager at Rayo

#### What was the vision behind founding Rayo?

Rayo is a Digital Challenger Bank for expats and immigrants in the US to ease their access to financial products. It allows users to open a US account before arriving to the US. Rayo realized that the expat community was largely underserved even though they account for one of the wealthier customer segments with an average salary of \$100k. It is also a large segment with a population of more than 10 million that makes it an attractive segment. Rayo wanted to create an offering that would remove the need to transfer money across borders, and act as a global bank account that can be used to make payments in multiple currencies with a global account balance.

#### Who are the partners Rayo relies on?

Rayo does not have its own banking license and rely on a bank partner for deposit accounts. Rayo has built the front end, providing functionality using APIs. It has built a ledger on top of bank partner stack that allows it to plug into other finTechs for loan, credit card, investment products, etc. Customers see one brand Rayo but the license is held by all these different partners for various products.

#### What is Rayo's business model?

Unlike many other start-ups, Rayo does not offer premium products and non-banking services from the get-go. As Rayo focuses on immigrants and expats, it offers services from partners such as relocation services, visa consultants, and investment advisors. In FI services, the margins are very thin, these additional services enable Rayo to have additional profit streams.







## A bank for immigrants and expats to US





Partner bank - to be announced soon in US



N/A
Funding Raised



**N/A**Users (Aug-2020)



1

Country (United States)

#### Products offered (in beta phase):



account













Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

## Rayo Bank offers tailored banking products to immigrants and expats in US

rayo

.ıl ⊗ III

Add Funds

Tools and features for retail customers



Founding member benefits - Early access to Rayo app, Fee free money transfers for life, subscription fees waived, special edition debit card

Debit Card and

Ready debits cards

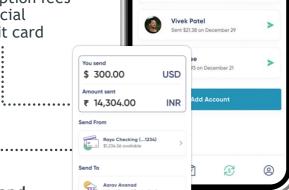
when immigrants

for credit cards on

arrive and apply

credit card -

arrival



Contacts

Q Search

Agrti Singh

Miscellaneous service -Expert relocation and concierge service, free data service ready when immigrants arrive

Personal loan Without any
credit score
users can apply
for a loan

Money transfer & FX International
money transfer
and currency
services

#### Partnerships:



To offer personal loan



To support with Remittances

#### Other partners include:

Relocation agencies, local banks to keep deposits and international remittance partners









The power of a cloud-based open banking platform is that it can scale globally with minimal marginal cost, compared to traditional banks which would need to build data centres.



#### **Eduard Fabian**

Vice-President and CTO of Razer FinTech

## What value does each member of Razer's consortium bring to the table?

Razer brings the power of its leading global brand for Youth & Millennials and its extensive expertise in FinTech. FWD has a strong base in digital insurance, Sheng Siong provides support from a consumer and B2B point-of-view. Insignia provides a strong VC background, while Carro brings strong expertise as an e-commerce player.

How does Razer intend to reach underserved segments, being one of the Monetary Authority of Singapore's eligibility criteria for granting a digital banking license?

Razer defines the 'underserved' as the youths and millennials segment in both the B2C and B2B space. This is where the brand is the strongest: Razer has over 100m users globally in its ecosystem to whom it may provide new services. Its ambition is to serve segments of underserved SMEs, especially start-ups and smaller players who can't get access to credit or for whom it may take too long to secure business loans.

## Does Razer anticipate strong competition in the payments space, especially from incumbent players?

The payments space is highly competitive and is getting commoditized. The market share for incumbent banks in the payments space will continue to get eroded by the new FinTech players, especially if they are only operating in Singapore. We also see business models around the region that are not sustainable, where payment service providers are burning cash by paying merchants to adopt their solutions in 'wallet wars', rather than focusing on customer experience or business value.



# Provides online and offline payments services for merchants and an e-wallet for youth and millennials





2018

Founded

2020

Applied for digital banking licenses



N/A

Funding Raised



NA

Users (Sep-2020)



2

Countries (Singapore & Malaysia)

#### **Products offered:**





Merchant Payments

## Razer Fintech provides offline-to-online digital payment network in Southeast Asia

Tools and features for merchants and individual customers

E-wallet -

Provides payments services, transfer funds, and lifestyle products

Secure 1-Click -Provides a secure 1-Touch Payment method instead of entering 16 card digits

Mobile XDK -Cross-platform payment kit for brands to boost in-app payment performance Online merchant services - Global card processing and online payment gateway :



**Virtual Terminal** - All-in-one payment processor for merchants via a mobile app

Offline merchant services - Over 2m physical points across SEA providing • point of sale services such as distribution of games, top ups, bill payments and cash over counter

Marketplace
payments Payments between
..... multiple sub
merchants with an
automated
processing system

Payment automation - For recurring payments and easy instalments plan

#### Partnerships:



To drive customer engagement and gamification of the user experience



To offer short-term business financing to merchants under Razer Merchant Services



Enable Google Play Store customers to make O2O payments through the Razer Cash Solution









Our universal tech stack and operating model is key to our competitive advantage and global vision.

James Shanahan CEO of Revolut Singapore

#### Why did Revolut enter the Singapore market?

Revolut launched in Singapore in October 2019. Singapore is an attractive market for several reasons. It is a wealthy market in terms of GDP per capita and therefore a strong fit for Revolut's products and services. Additionally, the Monetary Authority of Singapore is a well-respected regulator who also supports a well-developed startup ecosystem. Although Revolut is ineligible for a Digital Full Bank License as a non-Singapore controlled entity, Singapore's Payment Services Act provides clarity and structure for our payments business. Finally, Singapore represents a natural beachhead for our expansion into Southeast Asia, with a surrounding population of over 600m and an addressable market of 100-200M, which is similar in size to Europe and the US. Singapore is also a market that welcomes new approaches to existing problems: Revolut has reached over 70,000 signups in Singapore since our launch, indicating a strong appetite for innovation and improved customer experience.

## How does Revolut intend to pursue its ambitious global expansion strategy?

Revolut has built a single global operating model and a universal technology stack. This means that apart from some degree of localization for regulatory and language barriers, our backend, operations and app is the same across the world. This is true of our approach to credit, risk, compliance and all other operating capabilities. As a result, we can go-to-market and reach profitability quickly, as we do not build any stack in new territories and our products have proven business models.

## Can you tell us more about Revolut's aim to build the world's first truly global financial "Super App"?

Money has found its way into every aspect of life, and a financial "Super App" represents the same unbounded potential for integration. Compared to a bank, a "Super App" attracts less preconceived restrictions and assumptions. This framing enables opportunities for us to roll out products that reach far beyond the traditional concept of a bank.





#### Revolut

Mobile app-based financial "Super App" which provides a wide range of financial services for consumers and small businesses



2015

Founded



**USD 580M** 

Series D Funding



13M+ & 500k+ (businesses)

(personal)

Users (Jul-2020)



35

**Countries Supported** 

#### **Products offered:**



Current account



Card





account

transfers



Source: BCG/Expand FinTech Control Tower, company websites, press releases / research



## Revolut is a fully digital banking alternative, offering a debit card, FX, savings and more

Tools and features for businesses and individuals

Savings Vaults - Allows individual and groups to save money for financial goals

Comparison -

comparison and

switching services

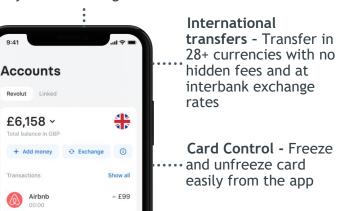
Personalized

Budget and spend analytics -Weekly spending insights with categorization

Instant spending notifications - Alerts for transactions in and out of account

Account aggregation -Connect external bank accounts to Revolut, giving users a view of their accounts within a single application

Smart company cards - Issue physical and virtual cards, track spending in real-time for the entire team

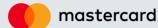


Accounting integration - Connect and automate accounting with tools like Xero, Freeagent and OuickBooks

Group Bills - split bills easily in groups

#### Partnerships:





For payment & FX, and to support its global expansion



To launch Open Banking for all **UK** customers



To provide clients with interest on their Savings Vaults



To offer marketing help to its business customers









Ultimately, the challenge is not only to build innovative financial products, but to build a profitable and future-proof bank around them



#### Ravi Patel Head of Partnerships, Asia-Pacific of Thought Machine

## How Thought Machine's value proposition is unique in the cloud banking space?

As banking continues to evolve to a cloud infrastructure model and with growing pressure to be profitable and compete with emerging technology platforms, there is a growing demand for cloud native core banking applications.

Thought Machine is an engineering company that has purposefully written our cloud-native platform, Vault, entirely in-house so it does not contain any legacy or pre-cloud technology. It is designed for any type of bank, including large complex banks, to take advantage of all the benefits of scalability, security and resilience. Vault is available on every major cloud infrastructure provider including Google Cloud Platform, Amazon Web Services, Microsoft Azure and IBM Cloud, or hybrid cloud using Red Hat OpenShift, as software or as a SaaS product. Banks such as Lloyds Banking Group, Atom bank, SEB, Standard Chartered's Mox and FinTechs such as Monese have been able to design new Digital Banks with a strategic advantage in platform capabilities, performance and their ability to develop new 'hyper-personalized' products.

## Where does Thought Machine sit in the customer's end-to-end experience?

Thought Machine focuses on a bank's back-end core banking product engine and ledger technology, designed to be performant on a cloud infrastructure. In an ideal scenario, a Digital Bank would be built around a real-time core ledger that could efficiently integrate to all the various upstream and downstream systems required through our APIs, giving it the foundations to scale up the efficiencies of platform agility. So Thought Machine sits at the heart of any financial product business and allows banks to deliver any proposition and any innovative customer experience, all using modern battle-tested technologies.

#### Does Thought Machine have plans to expand into new markets?

Headquartered in London, Thought Machine has been growing aggressively across all aspects of our business and geographically to be close to our clients. In 2019 we launched our second office located in Singapore to support the Asia-Pacific region and will be very soon opening offices in Australia in 2020 and the USA in 2021. Thought Machine will continue developing Vault, our core banking technology, as a market-leading solution while exploring new segments and capabilities where it adds new value to our clients.







Helps banks digitize their core offerings easily through a microservices API architecture platform



2014

Founded



USD 148.5M

**Funding Raised** 



400+

Users (Jul-2020)



1

Countries - United Kingdom, Singapore, Australia. (US opening in 2021)

#### **Products offered:**



Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

## Thought Machine enables flexible product design and creation through Vault

Tools and features helping banks deploy their banking solutions

Core banking engine -Cloud based SaaS engine using microservice API

architecture

Smart contracts -Easily configurable to run any type of retail bank product

Encryption - Data is encrypted at rest and in transit. Customer data is ringfenced and protected by a sophisticated permissions system defined by the workflow engine

Workflows - Operations

like KYC, fraud etc are

**High Availability** - The Kubernetes orchestration layer makes it safe against crashes or server failure

Data Analytics and Reporting - Real time analysis and reporting through data access via a streaming API

Flexibility & scalability - Easily scalable and can handle tens of thousands transaction per second

Change & Run Cost -Bank pays for the amount of hardware it uses with quick and easy changes and new launches





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**Stuart Smith**Regional Head of Engagement & Design at TMRW by UOB

#### What are the target market segments for TMRW?

TMRW by UOB is a mobile-only bank designed for the digital generation in ASEAN, offering a simple and engaging customer experience through the use of data.

TMRW is targeting the millennial segment, where the sheer size of young and digital-native population makes it very attractive. Even though we have set a target to grow to 3-5 million customers in 5 years, numbers aren't the sole focus and we want to ensure quality customer acquisitions. If we are able to get it right - demographic, age group, etc., the lifetime value of each customer will be exceptional.

An important value proposition of digital banks is the emphasis on a good onboarding experience and TMRW by UOB is outperforming in that respect; we can do it in Indonesia within 7 minutes.

#### What differences do you see in markets in Indonesia and Thailand?

When it comes to digital banking, banks in Thailand have great digital offerings and provide a very well-rounded omnichannel experience.

Indonesia is a very diverse and fast-moving market where incumbent banks are providing features on their digital platforms as well as strong offerings from wallets and non-bank players.

TMRW by UOB has similar offerings in both markets and is currently looking to introduce an e-commerce loan product which will further attract customers to our bank. Moreover, most Neobanks tend to launch with a single product, TMRW by UOB started with a bundled product- cash and credit card which has worked very well in both markets.

#### How do TMRW and UOB Mighty co-exist?

UOB Mighty services our omnichannel customers in our mature market such as Singapore and Malaysia. These customers often have complex product needs and requirements. TMRW on the other hand, is designed to reach new customer in the emerging markets of ASEAN. TMRW and Mighty share technologies and the AI platforms we have built are deployed in both applications.







## A full suite of banking solutions through a smart, mobile-only app



### TMRW is a mobile only bank for millennials

Tools and features helping customers on their savings journey



2019

Founded



N/A

Funding Raised



N/A

Users (Jul-2020)



2

Countries (Thailand and Indonesia)

#### **Products offered:**

Debit

/Credit



Current account



Saving



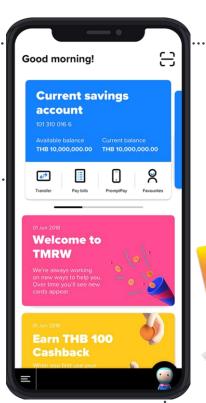
Unsecured Lending

ionesia)

ed Sp 3 no

Analyse and predict Provides a cash flow analysis & predict cash flow patterns for upcoming payments

Spend
tracking Enables
budgeting,
categorization, ....
payment
notification &
spend
notification



Smart saving -Provides personalised saving advice and has an in-app saving game where user's virtual city grows with savings

TMRW Credit Card
- offers cashback
and other attractive
deals on spending



Chatbot -24hr helpline with in-built call feature Powered by:



Partnerships:



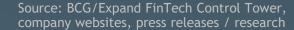
Leverages AI-powered personalized insights that offer stand-alone bite-sized information about a customer's financial activity



Leverages its technology to track, consolidate and categorize customer data



Uses Avatec.ai's credit assessment capabilities









66

There is a huge opportunity in digitalizing deposits for the banked and unbanked in Philippines, providing them with a better digital proposition.



**Greg Krasnov**CEO and Founder of tonik

#### Why are you initially going after the Philippines market?

tonik is a transformative Digital Challenger Bank on a mission to revolutionize the way money works across SEA. There is a great opportunity in deposits within Philippines; 50% of the banked Filipinos are ready to switch to a good digital proposition - a Digital only Bank that is simple, not intimidating, helps them save with a non comparable mobile-based efficiency. Additionally, there is another addressable market: financial inclusion - there is a lot of money not deposited in banks today (70% of Filipinos save cash "under the mattress").

#### How is tonik positioning itself compared to the competition?

tonik is focusing on deposits and loans for the underbanked and unbanked segments, fulfilling their digital banking needs where a lot of incumbent banks in the Philippines have not met. Out of the population that borrow, only 4% borrow from banks - banks are doing a poor job including them.

On the other hand, while digital lenders are very active in the Philippines, we do not consider them to be competition. They mainly focus on loans granted for a period of 30-60 days which is not suitable for the target segment tonik is focusing on.

#### Why did you choose to incorporate in Singapore?

Singapore provide legal entities advantages: shareholders agreement and arbitration are favourable. tonik is operating across 3 locations: Manila, Singapore and India, where our R&D centre is located (Chennai). Our holding company in Singapore is the owner of these entities.







#### First Digital-only Bank licensed in Philippines



2018 Founded

2020 Digital Banking License



**USD 27M** 

**Funding Raised** 



N/A

Users (Jul-2020)



Country (Philippines)

Products to be offered: (As not yet launched)



account





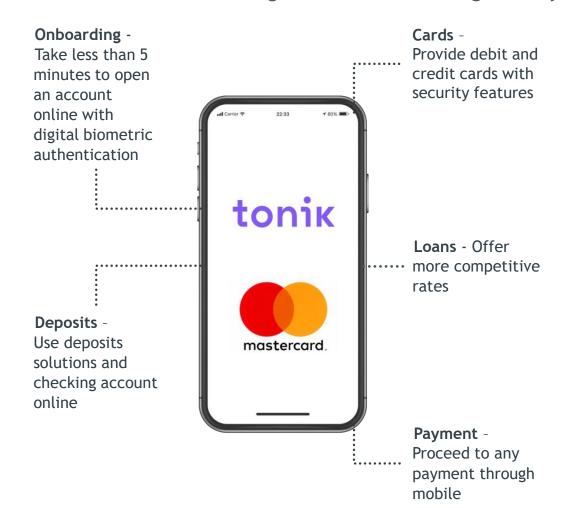




Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

### tonik offers a full range of digital-only banking services

Tools and features enabling customers to use digital only financial services







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Digital banking for the mass market requires a "high touch - high tech" approach to travel the digital journey with the customer in order to establish strong trust.



#### Coen Jonker

Executive Chairman at TymeGlobal; Non-Executive Director at TymeBank

#### Brief introduction about TymeBank

TymeBank is globally the fastest growing greenfield Digital Challenger Bank, launched in South Africa in 2019 with 2m customers onboarded in 17 months. It is also the country's first majority black-owned retail bank. Tyme's proposition solves unique emerging markets challenges - access to cash and financial literacy, to enable financing access to the underserved and underbanked in South Africa. Tyme is a full Digital Challenger Bank with no branches and a cloud-based loosely coupled microservice tech stack.

#### What was the bank's customer acquisition strategy?

Digital banking for the mass market requires a "high touch - high tech" approach to travel the digital journey with the customer in order to establish strong trust. Partnering with the most trusted grocery chain in South Africa, TymeBank opened with standardized digital onboarding kiosks to provide bank accounts in under five minutes. Working with the grocery chain offers the customer a physical location to easily access banking activities, and at the same time, also reassures the customer that they can access cash through a cash register till when needed. 85% of Tyme's 2 million customers have onboarded through the kiosks which takes on average under 5 minutes to issue a bank account and personalized debit card. Customers then learn about the account from an Ambassador, hired from the local community, who guides and provides support, further strengthening the trust factor.

#### How has Tyme differentiated its offering?

Tyme's bank account, which is a transaction and savings account in one, is free to open and doesn't charge a monthly fee, unique in South Africa. Tyme's GoalSave savings account uses gamification and positive incentives to provide better interest rates the longer the customer keeps the money deposited. At the same time, Tyme does not penalize if money is withdrawn prematurely. TymeBank is imminently launching responsible high velocity lending products as well as third party products in insurance and a credit card. Tyme further builds customer loyalty through integrating into its retail partner's Smart Shopper Loyalty program.







## A bank for underserved South Africans





2018

Full Banking License

2019
Banking launch



**ZAR 900M** 

Funding Raised



**2M** 

Users (Jul-2020)



1

Country (South Africa)

#### **Products offered:**



Debit /Credit





Saving

Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

## TymeBank offers digitally smart banking designed to meet people where they go

Tools and features for retail and SME customers

......

EveryDay banking

GoalSave

Card management

Transact

Pay someone

Add to goal

4847 55\*\* \*

R350.00

**Tyme**Bank

4847 1234 5678 9101

Valid 00/00

VISA

#### Account -

Online account with no monthly fee for daily transactions

#### Loan -

High velocity lending products to be launched

### Smart shopper points -

TymeBank card
earns smart
shopper points
when users shop
and double points
for swiping at
Pick n Pay

TymeCoach Free access to
credit score plus
tips and tools to
help users make
better decisions

#### Goal save -Savings tool for a

purpose like wedding, holiday, birthday with up to 7% interest

## Debit card - 24/7 access

to debit card with the power to immediately freeze or cancel when

lost or stolen

Money transfer -Instant money transfer to South African cell number

#### Cloud-based:



Hosts Tyme's loosely coupled microservice platform.

#### Partnerships:



Retail environment that hosts the Tyme Kiosk, the Ambassadors in the retail stores; provides retail basket detail for credit scoring.









Up is a Digital Bank designed to help you organise your money and simplify your life.



**Dominic Pym**Co-Founder of Up

#### What's the founding vision for Up?

Up is a Digital Challenger Bank designed to help you organise your money and simplify your life. We believe we can take people from a place where money is a cause of stress and anxiety to a happier place where they feel empowered and in control of their finances.

## How does Up differentiate itself from digital banking contenders in terms of features?

Up is delivered through a collaboration between Ferocia (an Australian technology company) and Bendigo and Adelaide Bank (the fifth largest retail bank in Australia). This unique partnership helps us iterate at lighting speed, delivering innovation faster than any other Australian bank. Upsiders build their own experience according to their needs and values, our role is simply to help them spend wisely and save effortlessly. With auto Salary Splitting they can push their salary into multiple interest-bearing Savers. With just two taps, Upsiders can use money in a Saver to "Cover" a purchase or they "Forward" incoming transactions like forwarding an email. "Pull to Save" rounds balances to the nearest dollar to save their spare change. Up's Insights tools automatically assign categories to track spending with over 150,000 identified merchants and power auto-predictions of upcoming bills and subscriptions. Transaction balance notifications and Saver Pools help Upsiders reconnect with their digital money in completely unique ways. Plus, Up is the only bank in Australia to have partnered with global players Afterpay for integrated BNPL transactions & smart receipts and TransferWise for near-instant and low-cost global money transfers.

#### How does Bendigo and Adelaide bank benefit from the partnership?

As the highest rated banking app in Australia, Up helps Bendigo connect with a new generation of customers (with 50% of Up's customers aged 16 to 25). Up also fuels Bendigo's growth with 140%+ year-on-year increase in customers (over 280,000 by Sep-2020) of which 90% are new-to-bank and have deposited over \$3B since launch.







Australia's fastestmoving bank, constantly innovating and engaging with customers to help them spend wisely and save effortlessly



2017

Founded



#### Self funded

No outside investment to date (Sep-2020)



280k+

Customers (Sep-2020)



## Up offers new digital-first tools to help you reconnect with and take back control of your money

#### Rapid Development

Requested updates from customers can go live on the same day

#### **Products Offered**

Spending account

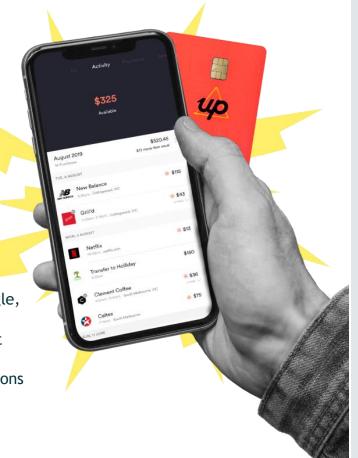
Debit card

Multiple savings accounts International transfers

Digital wallets (Apple, Google, Samsung, Garmin, FitBit)

Smart receipts with product data

Upcoming spending predictions In-app customer support



In partnership with









7TransferWise







#### Tools and features

International purchases -No fees. Actual Mastercard exchange rate provided

#### Saving goals -

Multiple customized savers with auto-roundup facility, boosts, and pay splitting

#### Smart Spending -

Instant merchant identification, spend categorization, and insights

Payment options - Supports Apple Pay, Google Pay, Samsung Pay, Garmin Pay, and Fitbit Pay Also built-in Osko support, TransferWise and Up2Up

#### Support -

In-app customer support, 7 days a week

#### Fast onboarding -

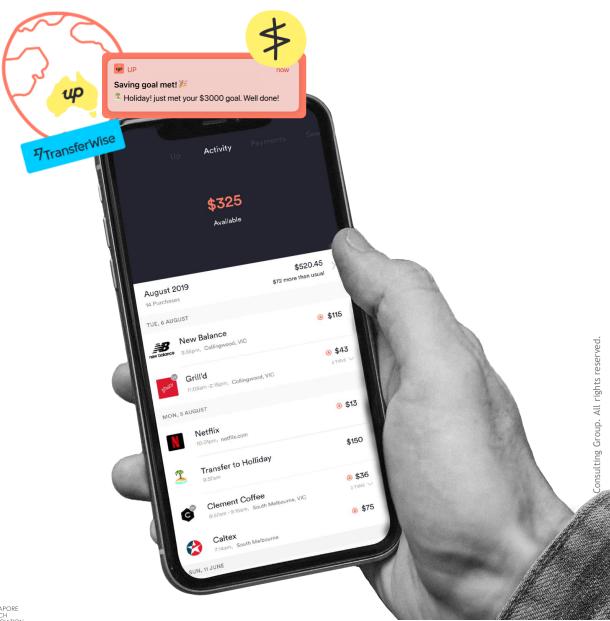
< 3 mins in-app sign up, including digital wallets

#### Instant notifications -

Get real-time spending and balance notifications

#### Easy deposits -

Free deposit of cash and cheques through Bank@Post at the local Australia Post outlet











Major banks business models leverage a lack of pricing transparency and strong customer inertia. Volt Bank is committed to showing Australians that banking can be done in a simpler and better way.



Steve Weston
CEO & Co-Founder Volt Bank

#### What is the founding vision and value proposition of Volt?

Rather than just providing banking products, Volt will provide a full range of support, including bank accounts, education and other tools, to more effectively support customers in living better financial lives than incumbent banks have been able to do. Volt offers highly competitive deposit interest rates. Unlike most banks, Volt doesn't offer higher deposit interest rates only for an introductory period, nor does it require customers to meet certain conditions to quality for bonus rates. For deposits, Volt will target millennials, retirees, small businesses and corporates. Volt will commence lending once it is comfortable with the state of the Australian economy, and when unemployment levels have stabilised.

#### What is Volt's customer acquisition strategy?

Volt has a two-pronged approach to customer acquisition; directly via our app and via a diverse set of partners such as retailers and payment firms. The partner channel will leverage the platform that Volt has built, which will allow customers to open bank accounts through the partner's ecosystem; a service that doesn't currently exist in the Australian banking market. This provides a low cost of acquisition for Volt and allows its partners offer a better experience to their customers.

#### What are some of Volt's "winning factors"?

Volt will facilitate account and utility bill switching and offer discounts at a large number of retailers when payment is made using a Volt account. Volt will also offer a seamless onboarding process and will support customers with budgeting and learning good savings habits. Volt aims to provide best-in-class solutions whether they are built internally or leveraged from best-in-class partners using open APIs.







#### Helping customers to be better off





2017 Founded

2019 Full banking license



**AUD \$113M** 

Funding Raised (Jul -2020)



~6,000

App Users (Jul-2020)



Country (Australia)

#### **Products offered:**



Transaction





Source: BCG/Expand FinTech Control Tower, company websites, press releases / research

## Volt is building a bank with a focus on customer experience

Tools and features that will be launched to help customers on their savings journey.

> Savings Challenge - set up a saving habit by setting goals and keeping track regularly

#### **Great Savings Rates**

- Competitive interest rate. leveraging lower cost operating model

No Bonus Rates -

attractive & fair

catches such as

rates all the time. No

honeymoon periods

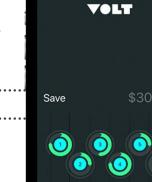
which rely on the

have rolled over to

an uncompetitive

customer not noticing that they

rate



Data Analytics real time data analytics to provide behavioural insights to customers

Savings tools savings visualisation. buckets, and automated payments

**Seamless** onboarding - 60 second digital account opening Core Banking System:



Partnerships:



PayPal customers can login to Volt using their PayPal credentials



Introduced its customers and team members to Volt



leveraged its cloud-based payments innovation platform & services marketplace



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#### **WeBank** 微众银行



Huiya Yao
Head of Fintech Innovation



Mohan Ma Head of Regional Partnerships

#### How has WeBank transformed banking in China?

Backed by Tencent as its largest shareholder, WeBank is China's first Digital Challenger Bank with a focus on improving the accessibility and quality of financial services for underbanked and unbanked individuals and SMEs.

Over the last 5+ years, WeBank has taken a non-conventional approach to developing its business by employing several digital banking business models simultaneously: Mass Banking (offering personal loans through WeChat & QQ platforms); Direct Banking (offering personal finance management and SME lending through independent, self-owned channels), and API banking (embedding financial services into 3rd party platforms, such as e-wallets in retailers and auto loans into online second-hand car platforms).

Serving millions of customers via each of these business models in a fully digital, agile, and cost-viable manner poses many internal and external challenges for the Bank (e.g. customer predictability, fraud risk, high frequency transactions, etc.). To solve for these, WeBank's in-house developed FinTech is applied throughout the Bank, leveraging advanced AI, Blockchain, Cloud Computing and Big Data technologies.

Consequently, WeBank serves as one of the world's strongest examples of a bank applying business model innovation and FinTech at scale.

#### How is WeBank positioning itself compared to the competition?

WeBank combines its core competencies in product design, technology, and data analytics as a part of a '30' Paradigm of Open Banking (Open Platform, Open Innovation, Open Collaboration). Through Open Platform, WeBank positions itself as a partner bridging ecosystem-based digital businesses over to incumbent financial institutions. Open Innovation allows third party technology and financial businesses to develop their own capabilities and technologies based on WeBank open-source projects. Open Collaboration encourages multiple businesses to join WeBank to form collaborative business models for equitable participation and benefits.

#### How is WeBank adapting its offering during Covid19?

WeBank's agile operations and digital business model ensures uninterrupted services to customers, even as employees and customers alike must work from home. WeBank established multiple financial relief measures for individuals and SMEs stressed by COVID-19. Based on WeBank's technological capabilities and modular systems, new tailored products may be launched in rapid response to the crisis; for instance, one SME loan for an ecosystem partner was released in just 10 days.







#### Deep in-house technical expertise - partnering with Ecosystem





2014

Founded



Non-disclosed

**Funding Raised** 



>200M

Users (June-2020)



Country (China)

#### **Products offered:**









Unsecured Insurance Auto Loan

### WeBank offers internet-based banking products with strong credit propositions

Tools and features for retail and SME lending customers

Credit line offered

¥500 - ¥300 K

(~\$70 - \$43 K)

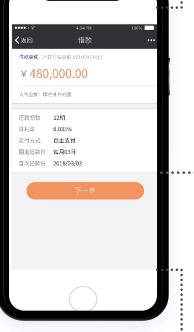
Time to determine credit line <5 Seconds

Easy application Whitelisting mechanism improves UX and approval rates

Time to receive funds in account Instant credit assessment, funds can be received in <1 minute



1. Weilidai Personal Microloan



2. Weiyedai SME Loan

Dynamic unsecured Credit Line Max. ¥3M (~\$435 K) without requiring collateral

Flexible repayment - daily interest accrual, options to pay off outstanding amount without penalty

Smart risk management: quantitative risk assessment based on big data, <54 sec approval



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## Acknowledgements



Interviews

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Group

**Gerald Gruber** Head of Business

Development, bung

Pearlyn Phau

Group Head of Consumer Bank Products & Ecosystem Partnerships, DBS

Sanjoy Sen

Group Head of Consumer Franchise & Distribution,

DBS

Ge Drossaert CEO, Fidor

Kelvin Teo

Co-Founder and CEO.

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**Judith Erwin** 

CEO, Grasshopper Bank

Jason Latham

CTO, Hav

Joel Yarbrough

VP Asia Pacific, Rapyd

Joaquin Ayuso

General Manager, Rayo

**Eduard Fabian** 

Vice-President and CTO, Razer FinTech

James Shanahan

CEO of Revolut Singapore

Ravi Patel

Head of Partnerships APAC, Thought Machine

Stuart Smith Regional Head of

Engagement & Design,

TMRW by UOB

**Greg Krasnov** Coen Jonker

CEO and Founder, Tonik

**Executive Chairman of** Tyme Global Non-Executive

Director, TymeBank

**Dominic Pym** Co-Founder, Up **Steve Weston** 

CEO & Co-Founder, Volt

Bank

Huiya Yao

Head of FinTech Innovation. WeBank

Mohan Ma

Head of Regional Partnerships, WeBank

**BCG** advisors

Designer

Jungkiu Choi

Partner and Managing Director, BCG

Mark Dynes Partner and Managing Director, BCG

Kanittha Ritmak Designer, BCG

Source: BCG Fintech Control Tower





Pauline Wray
Managing Director



lan Loh Project Leader



Yang Yu Lead Analyst



Selin Suntay Lead Analyst



**Jason Han** Analyst

### **Advisors**





Chia Hock Lai President



Joshua Chong Director

105

