



NEO BANKS - PERFORMANCE AND NEW IDEAS

OCTOBER 2018

EXECUTIVE SUMMARY



Accelerated
expansion in
customer base,
innovative revenue
generation &
monetization
models and
increased M&A
activity would carry
digital banks into a
higher league

The 'Neo Banks' Growth Story

- Neo & Challenger Banks are redesigning their business models around customer-centricity, for significant user growth. A few of them such as Chime, Revolut, N26 and Compte-Nickel have acquired a million-plus user base with total transactions value running into \$4-\$18 Bn.
- The Digital Banks are also leading on customer satisfaction metrics. US Digital Banks' customers are 83% satisfied as against 76% satisfaction rate for UK customers. In both the markets, customers report the lowest satisfaction with Top 50 Global banks.

Business Model & Competitive Levers

- Neo banks are challenging the universal banking model through a **low-cost structure**, **feature-rich products/services** and **easy accessibility**. Their Innovation engine focuses on three key pillars Customer experience, User convenience and Simplified processes. **Platform-centric models via open banking and APIs** is also enabling Neo banks to expand user base, growing commission income and in offering increased potential for data monetization.
- The Neo & Challenger banks have a strong cost efficiency driven by less complex IT systems, simpler product set, lower real estate and distribution costs and more streamlined operating models
- **Demand-pull** for Neo & Challenger Banks is rooted in their ability to offer a faster and transparent model, lower fees, superior CX and a goal-oriented business aimed at improving household financial wellness.

Near-Term Strategic Threats to Mainstream Banks

- In the near term, the **disruption risk remains significant** for **retail and basic banking services**, which are transactional in nature. For advisory services such as financial planning and wealth management, most of the existing robo-advisory platforms currently address only a part of the value chain, geared towards portfolio creation and execution. A **full-fledged robo-advisory** service is likely to have a significant impact
- For mainstream banks, the biggest threat comes from **full-stack neo banks** such as Monzo, Starling Bank, N26, Tandem and Atom Bank. Armed with an asset-light model, platform-centric business, proprietary technology systems and a banking license, they control most of the value chain from front-end to back-end

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Neo-Banks: Performance and New Ideas—October 2018

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Performance and Satisfaction Analysis

PERFORMANCE

A FEW NEO-BANKS ARE ATTRACTING A LARGE USER BASE

Finnovate Research ideas for financial innovation

As big banks have been slower to adapt to new technologies and changing customer needs, start-up digital banks have been amassing a large user base who are actively using their services. Chime, Revolut and N26, in particular, have acquired a

million-strong user

base with total

transactions

amounting to

billions of USD.

DIGITAL BANK	LAUNCH	TOTAL USER BASE	USER GROWTH RATE	TOTAL TRANSACTION VALUE	TRANSACTION ACTIVITY
Revolut	2014	Over 2 million	8,000	US \$18 billion	US \$1,000 per user per month
Chime	2013	Over 1 million	3,500	US \$4.5 billion	40 transactions per user per month
N26	2014	Over 1 million	2,500	US \$10 billion	US 1.17 billion per month
Compte- Nickel*	2010	Under 1 million	650	US \$4.5 billion	40 million total transactions

*Compte-Nickel was acquired by French bank BNP Paribas in April 2017



HOWEVER...

Not all neo-banks are enjoying performances that are as stellar:

DIGITAL BANK	LAUNCH	TOTAL USER BASE
Lidya	2016	Over 120,000
Open	2017	Around 1,000
Countingup	2018	Around 1,000 (500 acquired within 3 weeks)
Loot	2014	Over 100,000
Tandem	2013	Over 100,000
Nuo	2018	20,000 (acquired within 2 days)

And not all reported sign-ups are indicative of 'actual' usage and activity:

- Usage statistics reveal neo banks' customers are at least as active** as those of legacy banks
- At Starling, 60% of customers use their accounts at least once a month with an average of £900 in deposits
- At Monzo "more than 45% of customers are putting at least £500 a month into their accounts"

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^{**}most large UK high street banks define an "active" customer as one who has used their account in the last three months

SATISFACTION

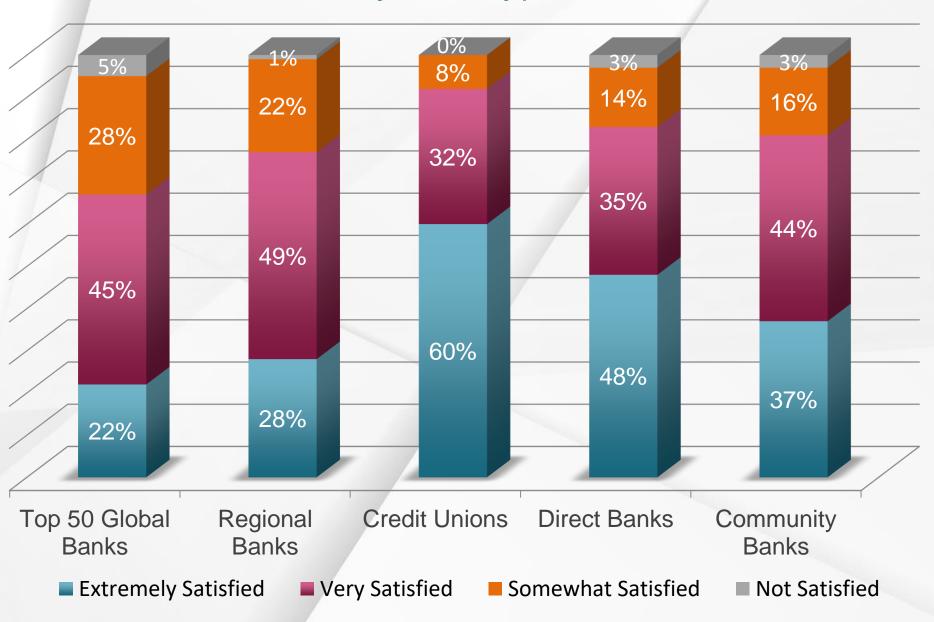
1

NEO-BANKS FEED ON LOW SATISFACTION WITH MAINSTREAM BANKS



US banking consumers are most satisfied with Credit Unions and least satisfied with Top 50 Global Banks.

Customer Satisfaction by Bank Type—US



US Credit Union members are the most satisfied, while customers from Top 50 Global Banks are least satisfied with their banks

Direct Banks'
customers are 83%
satisfied as against
67% satisfaction
rate for Top 50
Global Banks

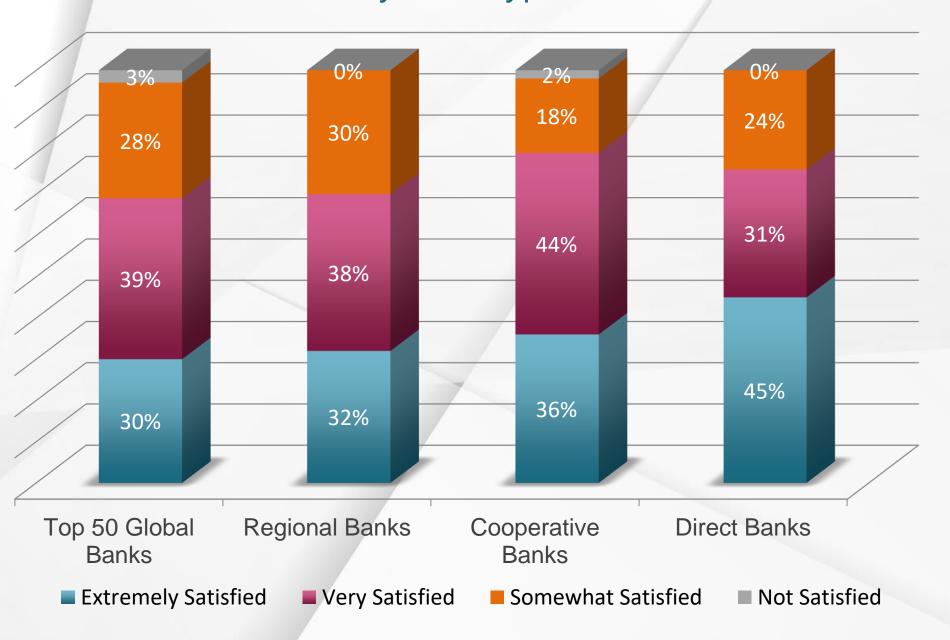
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UK DIRECT BANKS EARN HIGHEST SATISFACTION RATING



UK consumers report the highest satisfaction with Direct Banks while they are least satisfied with Top 50 Global Banks.

Customer Satisfaction by Bank Type—UK



UK customers of Top 50 Global Banks are much less satisfied compared to Regional, Cooperative and Direct Banks

Direct Banks report the highest satisfaction among customers, followed by Cooperative Banks



NEO BANKS FOCUS INNOVATION ON CX, CONVENIENCE



10

Neo banks are challenging the universal banking model with their lower costs, personalized insights, predictive intelligence, user-friendly interfaces, easy accessibility and simplified processes **AND SIMPLIFIED PROCESS**

Customer Experience



Some consumers feel that their finances were better understood, better guided and better managed by alternative banking providers, such as challenger banks and neo-banks

User Convenience



Consumers are demanding ever-more consistent and convenient banking experiences, with an increasing preference for a mobile user interface instead of a physical location or bank personnel

3

Simplified **Process**



Consumers are willing to try new banking platforms in order to save money and to simplify financial transactions

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INNOVATION

1

2

3

Neo-banks prioritize customer needs and circumstances – structuring their products and services in a way that is empowering instead of punitive.



1. CUSTOMER EXPERIENCE

Interchange Fee Based Model Minimizes Front-End Friction

Use of Interchange Fee model to minimize customer-facing fees, such as monthly fees, minimum balance fees, and overdraft fees

Chime earns ~1.5 percent in interchange revenue from Visa through its accompanying debit card

N26 generates interchange fees from merchants

Spending Analysis and Controls

Focus on PFM with realtime insights

Loot lets customers know how much they can spend freely

N26 sends push notifications on all account activity (e.g. card payments, ATM withdrawals)

Tandem and **Personetics** provide personalized insights on money management

Finnovate Research ideas for financial innovation

Al Credit Scoring Enables Smoother and Faster Decisions

Use of AI models and analytical engines to enable faster decisions

Lidya uses nearly 100 data points to assess the credit worthiness of applicants. Repayment schedules and fees are agreed upon upfront without the need to visit physical branch.

INNOVATION

2

3

2. USAGE CONVENIENCE



Digital banks are creating convenient ways of accessing banking needs by tapping into local ecosystem, collaborating with technology specialist firms and embedding Albased capabilities into their offerings.



Location-Agnostic Banking

Anywhere, anytime models

Banking through Digital Venues as against Physical Branches

Round-the-clock access on-the-go

Compte-Nickel's partnership with tobacconists/newsstands for deposits, balance

updates, etc.

Collaboration

Partnerships with local/global banks and FinTechs for expanded cross-sell

Re-bundling services through tight-knit integrations, Services Integrator model

Lunar Way Travel Card's app links to a pre-paid multi-currency MasterCard

Alior, Solaris, Raisin and Mastercard together will create an open banking platform based on APIs.

Automated Accounting and Cash-flows

Targeting SMBs, freelancers

Core features: Accounting, Tax, and Business reporting

OPEN offers automated bookkeeping and expense management for SMBs

Countingup enables instant, automated expense recording with real-time insights into the health of the business.

3. SIMPLIFIED PROCESS, TIME AND COST SAVINGS



Digital banks are helping users save money, especially on international transactions, and to better manage their finances, all without physically transacting with a bank



Low Cost Exchange Rate

Fast, secure, low-cost international purchases/transfers using the mid-market exchange rate

Revolut customers can spend in over 90 currencies at the best exchange rate available with no fees

Alior Bank will offer multicurrency accounts with international transfers and deposits

Quick and Free ATM Paperless Sign-Up Withdrawals

Seamless customer onboarding experience

Open user accounts via mobile or web within a few minutes and with minimal requirements

Revolute: 3 minutes

N26: 8 minutes

Countingup: 5 minutes

Secure and free cash withdrawals from a global network of ATMs

Chime has a network of 40,000 free ATMs

Savings

'Zero fee-account' model to promote savings

Xinja, the Australiabased startup, will combine real-time payments with the option to save money for specific purposes without having to open a separate account Strategy and Business Model

STRATEGY

NEO BANKS ADOPT PLATFORM-CENTRIC MODELS AS AGAINST PRODUCT-CENTRIC MODELS OF INCUMBENTS



Neo Banks are creating an ecosystem of services around their infrastructure, shifting the banking value from branches to their API layer. They are reshaping the business model by offering Banking-as-a-Platform.

Incumbents' Model PRODUCT-CENTRIC

BRANCHES

- High verticalization of products
- No strong communities around the brand/product
- Large branch/network
- High customer acquisition cost

TECH INFRASTRUCTURE

- Outsourced technology
- Rigid legacy platforms of 1970s–1980s
- Non-modular architecture with limited scalability
- Hard to integrate data from 3rd party providers

PRODUCT-CENTRIC BUSINESS

- Banking data divided into silos
- Mix of paper-based and online data
- Difficulties in reconciling, monitoring data

ORGANIZATIONAL DESIGN

- Product-centric organizational design
- Products and verticals drive organization structure

Neo-Banks' Model PLATFORM-CENTRIC

MARKETPLACE COMMUNITY

- High community engagement with the product
- Horizontalization of products with best-in-class apps
- Open banking through APIS
- Mobile only (low customer acquisition cost)

TECH INFRASTRUCTURE

- Open architecture technology stack
- Ability to 'plug and play' best-in-class tools/services
- Low dependency on 3rd party providers
- Open ecosystem allowing access to external developers

DATA-DRIVEN BUSINESS

- Real-time data integration and management
- Current accounts generate key data for 3rd parties
- Data powers business model through 3rd party affiliation fees

ORGANIZATIONAL DESIGN

- Customer-centric organizational design
- Customer needs drive data architecture

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COST ECONOMICS

1

2

MOST NEO-BANKS HAVE HIGH COST EFFICIENCY



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Neo and Challenger banks have less complex IT systems, simpler product set, lower real estate and distribution costs, more streamlined operating models and few legacy compliance issues compared to traditional banks. Achieving profitability, however remains a challenge, given rising pricing pressure.

Lower Customer Acquisition Costs

- Average challenger bank's cost of customer acquisition ranges from \$1 to \$38 compared to about \$200 for traditional retail banks.
- Monzo spends ~£6 (\$8.37) per customer if a person uses it as their primary account.
- Customer acquisition effort driven largely by viral marketing and social media.

Back-End Outsourcing

• Several challenger banks such as N26 and Tandem have **outsourced back-end technology** stacks resulting in lower capital expenditure and faster time-to-market.

Price Competitiveness

- UK challenger banks **pay roughly twice the savings rate** of traditional banks (0.92% versus 0.44% for the average easy access account).
- In the US, rates on deposits are three times higher at online/digital banks compared to traditional banks (0.79% versus 0.27% for a 12-month CD).

continued...

ACHIEVING PROFITABILITY REMAINS A KEY CHALLENGE







TANDEM













Operating Efficiency

- Neo and challenger banks have an average **cost efficiency ratio of 46%** compared with a range of **50-60%+** for most traditional banks.
- The smaller challenger banks have achieved lower cost-to-income ratios due to rapid growth in total assets.

Distribution and Channel Costs

- Challenger banks adopt distribution models that do not utilize a branch network.
- Distribution costs typically run at **6% of their overall cost base**, compared to an average of **27%** across the retail banking industry.

Profitability

- UK challenger Monzo's prepaid card scheme loses around £50 per active customer per year.
- Large volume of current accounts with their low average balances are inherently unprofitable.
- N26 closed 160,000 customer accounts as users were making too many ATM withdrawals, pushing up costs for the bank.

APIS ARE A FORCE MULTIPLIER FOR NEO-BANKS



Neo-banks are embracing open APIs as it enables them to offer a seamless experience for their users and also to explore opportunities for expanding their revenue and customer streams.

Neo Banks are embracing APIs to create new financial products & services

Marketplace

Starling Bank and Monzo's partnership involves building a **marketplace** of financial products and services, which offers users with:

- A curated selection of the best money-related apps
- Open APIs to allow other developers and FinTechs to build functionalities on top of their infrastructure
- Positive user experience and higher transaction activity

Integration with Third-Party Platforms

Monzo's integration with 3rdparty API platforms offers
additional functionalities:

- TrueLayer's financial APIs
 enables business users to swiftly
 and securely request access to
 account data from Monzo
- IFTTT's automation platform allows Monzo's users to connect to other apps & devices

Categorization Engine & Smart Nudges

Integration with **Moneyhub**, offers users of Starling and Monzo access to its proprietary categorisation engine and Smart Nudges towards making well informed monetary decisions

continued...

APIs

APIS ARE ENABLING NEW REVENUE STREAMS AND





Three-Pronged Benefits to an API Model

Inheriting Users

Expansion of **user base** by providing their services on a third-party platform or by offering third-party services/ on their platform.

E.g.: Spare change app Moneybox and PFM chatbot Plum's Integration with Starling and Monzo will create a more unified approach to PFM for users

API

Monetizing Financial Data

Potential for data monetization through access to a significant amount of financial data.

E.g.: Loot generates advertising revenues based on target product offers

Earning Commission

Increase in **commission** income by expanding their transaction activity and sign-up rate, contributing towards profitability.

E.g.: Monzo's integration with TransferWise, yields it a percentage for each currency transfer made from its app

Starling can make a fixed or percentage commission for new sign-ups made through its Marketplace

Adoption Drivers and Attributes: Comparative Analysis

ATTRIBUTES INFLUENCING THE CHOICE OF A BANK



US

UK consumers overall value their needs for Trust and Control most, but consumers in the Millennials segment see Digital Selfservice as more important. UK

US consumers value Trust and Simplicity the most, while young millennials rank Digital selfservice as more important.

Consumers Rank Trust & Digital Self-service The Highest

UK						3	03
RANK	YOUNG MILLENIALS (18-26)	GEN Xers (38- 52)	BABY BOOMERS (53- 71)	RANK	YOUNG MILLENIALS (18-26)	GEN Xers (38- 52)	BABY BOOMERS (53- 71)
1	Trust	Digital Self-Service	Trust	1	Trust	Trust	Trust
2	Control	Trust	Control	2	Digital Self-Service	Digital Self-Service	Simplicity
3	Digital Self-Service	Control	Simplicity	3	Simplicity	Convenient Locations	Convenient Locations
4	Digital Payment	Simplicity	Human Touch	4	Control	Simplicity	Human Touch
5	Simplicity	Convenient Locations	Recognition	5	Digital Payment	Human Touch	Digital Self-Service
6	Recognition	Human Touch	Convenient Locations	6	Convenient Locations	Control	Control
7	Convenient Locations	Recognition	Digital Self-Service	7	Human Touch	Digital Payment	Digital Payment
8	Human Touch	Digital Payment	Digital Payment	8	Recognition	Recognition	Recognition
9	Immediate Access	Immediate Access	Immediate Access	9	Immediate Access	Immediate Access	Immediate Access

RUN	
FACTORS	

Trust, Simplicity, Convenient Locations

CONNECT FACTORS

Digital

Self-Service, Human Touch, Immediate Access GROW

Recognition

FACTORS

Digital Payment, Control

CONSUMER CHOICE

1

2

CONSUMERS MOSTLY PREFER NEO BANKS FOR SPEED, TRANSPARENCY AND UX



Neo banks' ability to offer faster and transparent model along with their low-cost structure and superior UX are key factors influencing customers' growing preference for them over traditional banks.

Notes:

- 1. The relative preference assessment is based on Finnovate's qualitative analysis of individual choice factor
- 2. Core factors are primary attributes influencing customers' choice of Neo-banks

Choice Factor Description

(Core)

SPEED

- Fast and simple account opening (3–7 minutes)
- Simple form filing, direct video call



 No hidden fees, monthly charges, minimum balances



- Minimum/No fees like overdraft and monthly fees
- No foreign ATM fees

USER EXPERIENCE

- 100% digital and mobile platform
- Feature-rich apps and tools

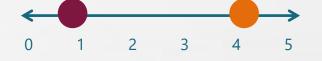


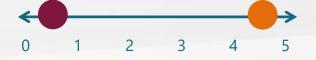
- Smart ways to help households save
- Spending analytics and advice

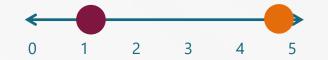
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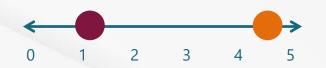
Relative Preference











Mainstream Banks



NEO BANKS ALSO OFFER VALUE-ADDED SERVICES TO ATTRACT NEW CUSTOMERS



Optichannel experience, value-added services and next-generation customer support are other factors driving customers' adoption of Neo-banks.

Choice Factor Description

(Add-on)

MICRO SEGMENTS INCLUSION

- SMBs, gig economy, lower-income households, women
- Socially-conscious banking/impact lending

NEXT-GEN CUSTOMER SUPPORT

LIFESTYLE

BANKING

- Chatbots, video banking, and interactive content
- Real-time customer service



Network of tools to help achieve financial goals



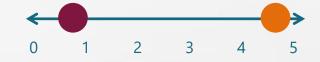


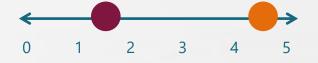
- Optimal channel-mix designed to each customer
- Data integration engine for unified customer view

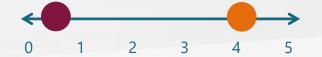


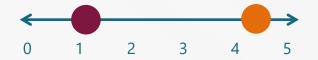
- International payments
- Multi-currency accounts
- Cryptocurrencies and gamified banking

Relative Preference











Mainstream Banks

Neo Banks

Notes:

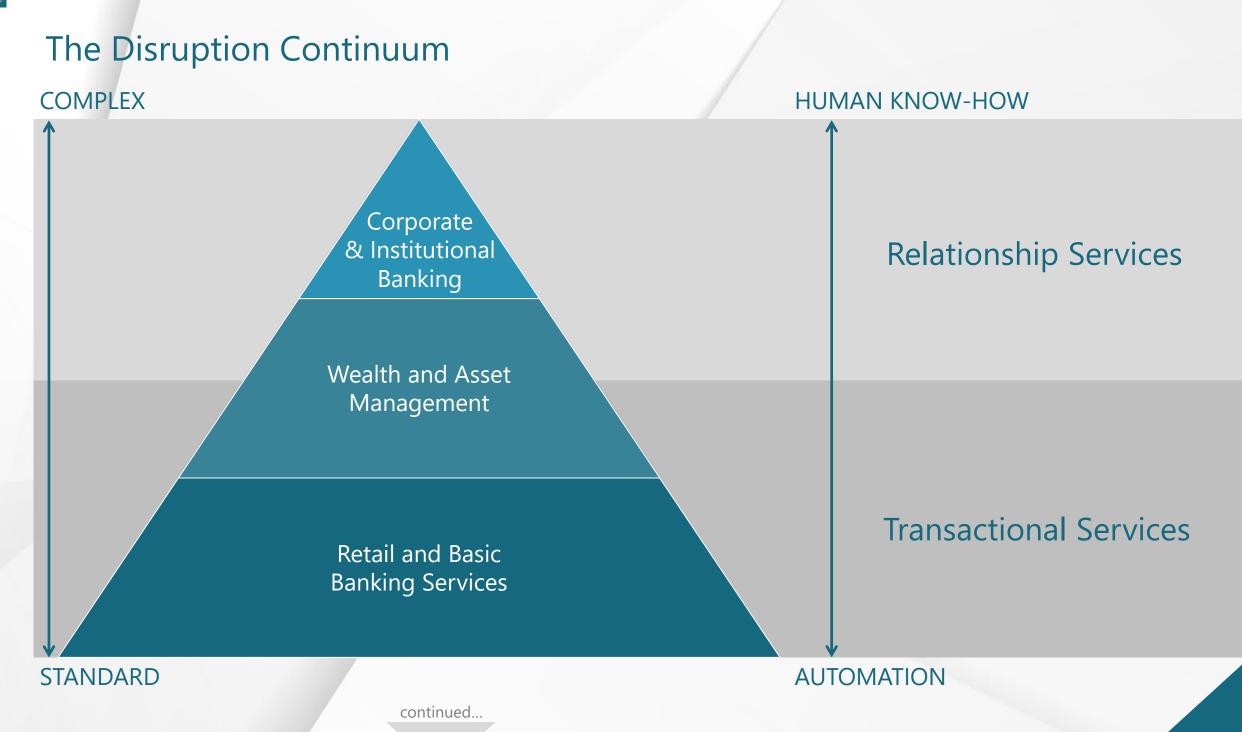
1. The relative preference assessment is based on Finnovate's qualitative analysis of individual choice factor

2. Add-on factors are secondary attributes influencing customers' choice of Neo-banks Market Impact and Outlook

RETAIL BANKING SERVICES HAVE HIGH DISRUPTION RISK



In the near-term, the disruption risk remains significant for retail banking services which are largely transactional in nature.

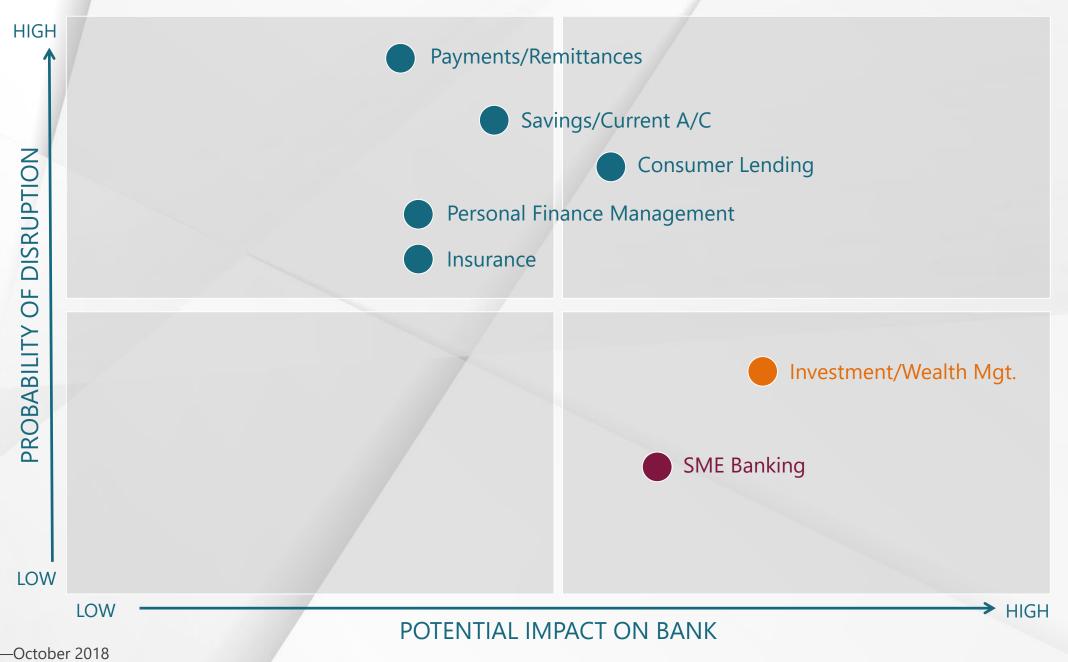


DISRUPTION IMPACT CAN BE SIGNIFICANT FOR SME BANKING & WEALTH MGT.

Finnovate Research ideas for financial innovation

Disruption: Impact v. Probability Matrix

The Digital banks are mastering most of the banking value chain from backend to front-end in order to deliver superior customercentric product based on a lean approach, asset-light and platform-based model.



High Probability



Medium Probability



Low Probability

FULL-STACK NEO BANKS POSE BIGGER THREAT TO MAINSTREAM BANKS



Full-stack Neo Banks are building the entire technology stack from scratch in-house, leveraging data and analytics for fuelling innovation and are employing a lean model, thereby offering greater control and flexibility to respond to customer needs.

Full-Stack Neo Banks

- **Built on Platform model**
- Have a banking license
- Control most of the value chain from front-end to back-end
- Use a lean/asset-light approach
- Have their own/proprietary CBS
- Leverage unsoiled data to gain customer insights/offer personalized services

FEATURES

Asset-Light Platform

 $\bar{N}26$





STARLING BANK

Full Services (In-house)





Front-End Focused Neo Banks

- Do not have a banking license
- Partner with a larger/established bank
- CBS/tech systems are off-the-shelf or sourced externally
- Control only front-end of the value chain (customer interface)
- Support B2C and B2B apps
- Target niche segments (young millennials, SMBs, **Entrepreneurs**)

FEATURES

B₂C

B2B

HOLVI

Targets Young People

SMB Focus







Basic Banking Services

Solo Entrepreneur N 26 W Kontist

STRATEGIC & MARKET OUTLOOK FOR NEO-BANKS



Accelerated growth in customer expansion, innovative revenue generating & monetization models, increased M&A activity are expected to catapult digital banks into the next league

Trend

Current Scenario

Outlook/Forecast

AGGRESSIVE EXPANSION

SHIFT IN

FOCUS TO

PROFITABILITY

- The U.S. accounts for ~4/5th of the global neo bank market in terms of customer base in 2016
- UK holds one-fifth share

Most banks in a net loss-generation phase

- Current focus on customer acquisition
- Growth supported by VC funding

INNOVATIVE REVENUE MODELS

- Partnership strategy and co-branding model
- Moven has teamed up with CBW Bank, TD Bank, and Westpac NZ
- Heightened consolidation among UK's larger challenger banks driven by:
 - rising costs, increased competition, and a sluggish economy.

ACQUISITION BY LARGER BRANDS

CONSOLIDATION

 Traditional full-service banks buying into new banks (E.g.: BBVA's acquisition of Finnish neo bank Holvi and US neo bank Simple)

- Customer base expected to grow at CAGR of 51% from 2017–2020.
- Global market to reach \$356 million by 2025
- Monetization of key services (E.g.: N26 monetizes new users on card issuing, ATM withdrawals)
- Freemium model expected to grow
- Expansion of non-interest income through:
 - 3rd party partnerships
 - value added services beyond banking propositions
- Wider focus on boosting growth through purchase of specific assets
- Falling valuations to provide additional catalyst for deal making
- Accelerated pace of M&A, giving incumbent banks quick time to market
- Product focus to lean towards entrepreneurs, SMB lending and consumer mortgages

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BLIND SPOT

IBANKS: FOCUSED ON STRONG TECH& DATA MONETIZATION



iBanks have a strong technology platform and generate revenues from targeted marketing through data monetization

Business Model

- Offers better and more customized services
- Generate additional revenues from targeted marketing through data monetization
- Need to pay a partner bank

Examples

- Loot (Loot.io) which caters to university students offers promotional offers, automated discounts and other personalized offers on its mobile app
- Makes money through advertising
- Lower banking fees for customers

Key Challenges

- Customer acquisition
- Dependence on partner bank (IT/costs)
- Data monetization in financial services



SOURCES



- Monzo, revolut and other challenger banks are shaking up the industry
- UK startup bank tandem partners with personetics to deliver ai-powered everyday banking that puts customers first
- <u>UK digital challengers beating high street banks on customer satisfaction</u>
- · Why big UK banks are worried about open banking
- 1 million customers: inside neobank chime's growth strategy
- Sony's adorable new aibo comes to the US
- N26 now has 1 million customers
- Full-stack neobanks are taking the retail banking market to the next level
- The digital disruption battlefield
- How much scale does your business need?
- Fintech start-up revolut grabs 2 million users and plans to launch commission-free trading service
- No-fees mobile bank chime raises \$70M series C, valuing its business at \$500M
- German challenger bank N26 reaches 1 million users on the heels of U.S. Launch
- The most successful neobank is french, but it is (still) mostly unknown in the rest of europe
- Digital neo-bank start-up loot secures £2.2m in series A round
- Challenger bank tandem lands 100,000 users in just five months, sets sights on lloyds
- What is lidya?
- The digital disruption battlefield
- Neo and challenger bank customer base to grow by 50.6%, globally, by 2020
- Finding a business model for challenger banks
- Neo and challenger bank market by type of bank (neo bank and challenger bank) global opportunity analysis and industry forecasts, 2016-2020
- The business models of banking 2.0
- CHALLENGER BANKS: LOOKING AHEAD TO EXPANSION AND EVOLUTION IN 2018
- How Many Customers Do Fintechs Really Have?
- KPMG: Challengers surge ahead, but obstacles remain
- Neo Banks aim to improve consumer financial health
- Neo banks might destroy traditional banks or launch the next wave of growth
- · Neo banks tomorrow's banking has arrived
- · Who wants to bank with a Digital Bank?
- 2018 PACE Insights: UK consumer

Finnovate Research ideas for financial innovation

Knyvett House, Watermans Business Park
The Causeway, Staines TW18 3BA
United Kingdom
www.Finnovate.com

Telephone: +44-20-3070-0188 feedbackus@finnovate.com