NeoBanks - Future of Banking?

Previously on FoF...



Money & Banking - Presentation by Rajeev Thakkar

7.7K views · 6 years ago



🐋 PPFAS Mutual Fund

Financial Opportunities Forum (May 19, 2016) Traditional banking is here to a

Agenda

- Traditional Banks
 - History of Banking Industry
 - Business Model of Traditional Banks
- NeoBanks
 - Understanding NeoBanks
 - Deeper Dive into a NeoBanks
- Comparing Business Models
- NeoBanks Future of Banking?

History of Banking Industry

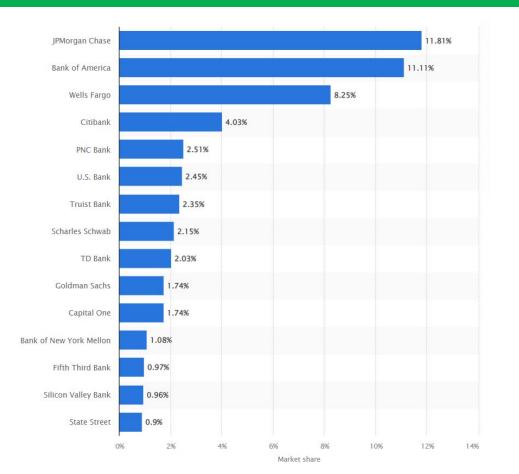
- As old as civilisation
- Bank is an Intermediary which connects those with excess funds (depositors) with those in need of funds (borrowers)
- Diversifies the Depositors risk by pooling
- Makes money on the interest rate differential
- Offers other related services for additional income
- Evolved over time into a well regulated industry

History of Banking Industry - USA

- Banking Before 1863
 Free Banking Era
- 1863 1913
 - National Banking Act
- 1913 1933
 - Federal Reserve Act
- 1933 -1980
 - Glass-Steagall Act
 - Banking Act
- 1980 2008
 - DeRegulations
- 1998 Current
 - Basel Norms
- 2008 Current
 - Dodd-Frank Act

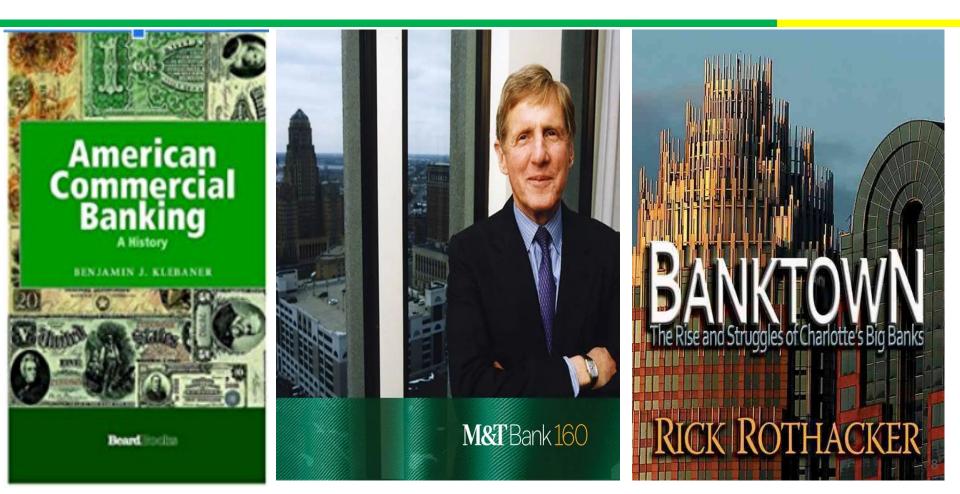
| 1990-1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |
|--------------------------------|------|-------------|-------|-------------|--------|----------|-----------|---------------|----------|----------|----------|------------|------------|------------------------------|
| TRAVELERS GROUP | | | | | | | | | | | | | | |
| CITICORP | | | | CITIGROU | IP | | | | | | | | | |
| EUROPEAN AMERICAN BANK | | | | | | | | | | | | | | CITIGROUP |
| BANAMEX | | | | | | | | | | | | | | |
| WASHINGTON MUTUAL | | | | | | | | | | | | | | |
| GREAT WESTERN FINANCIAL | | | - | WASHINGTON | MUTUAL | | | | | | | | | |
| H.F. AHMANSON | | | 1 | | | | | WASHINGTO | N MUTUAL | | | | X | |
| DIME BANCORP | | | | | | | | | | | | | | |
| FIRST CHICAGO | | | | | | | | | | | | | | |
| BANC ONE | | | | BANK ONE | | | | | | | | | | |
| FIRST COMMERCE | | | 1 | | | | | | | | | | IPAA | ORGAN CHASE |
| JP MORGAN | | | | | 2 | | | | | _ | | | | ORGAN CHASE |
| CHASE MANHATTAN | - | | | | | JPMORGAN | I CHASE | | | | | | | |
| CHEMICAL BANKING | C | HASE MANHA | ATTAN | | | | | | | | | | | |
| BEAR STEARNS | | | | | | | | | | | | | | |
| US TRUST | | | | | | | | | | | | | | |
| MBNA | | | | | | | | | | | | | | |
| CONTINENTAL BANK | | | | | | | | | | | | | | |
| BANKAMERICA | | | | | | | | | | | | | | |
| SECURITY PACIFIC BANCORP | | | | BANK OF AME | RICA | | | | | | | | | |
| NATIONSBANK | | | | | | | | | | | | | | |
| FLEET FINANCIAL GROUP | | | | | | | | | | | | - | BAN | IK OF AMERICA |
| BANCBOSTON HOLDINGS | | ANKROCTON | 2 | _ | | | | | | | | | | |
| BAYBANKS | В | ANKBOSTON | | | | | FLEETBOST | TON FINANCIAL | 10 | | | | | |
| SUMMIT BANCORP | | INAMA DANC | OPP | | | | | | | | | | | |
| UJB FINANCIAL | SI | UMMIT BANC | UKP | | | | | | | | | | | |
| COUNTRYWIDE FINANCIAL | | | | | | | | | | | | | | |
| MERRILL LYNCH | | | | | | | | | | | | | | |
| WELLS FARGO | | VELLS FARGO | | | | | | | | | | | | |
| FIRST INTERSTATE BANCORP | V | VELLS FARGO | | WELLS FARGO | | | | | | | | | | |
| NORWEST HOLDING COMPANY | | | | | | | | | | | | | | |
| SOUTHTRUST | | | | | | | | | | | | | | WELLS FARGO |
| WACHOVIA | | | | MACHONIA | | | | | | WACHOVIA | | | - | |
| CENTRAL FIDELITY NATIONAL BANK | | | 2 | WACHOVIA | | | | 055 | | | | | | |
| CORESTATES FINANCIAL | | | | | | | WACHOVI | A | | | | | | 0 |
| FIRST UNION | | | | FIRST UNION | | 1 | 60 - E | | | Im | ana Cra | dit: waaaa | vieualaa | 6 Initalist com |
| THE MONEY STORE | | | 9 | | | | | | | 1111 | lage cle | Source | s: Federal | pitalist.com Reserve; GAO |

History of Banking Industry - USA - Current situation



- 4,236 FDIC insured commercial banks in USA as of CY2021.
- Top 15 Banks account for 54%
 Market Share
- Large number of region focused banks

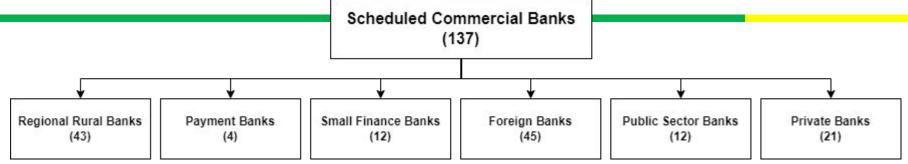
History of Banking Industry - USA



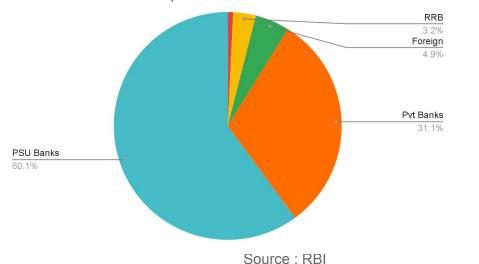
History of Banking Industry - India

- 1700s 1969
 - Trade and Commerce Driven
- 1969 1991
 - Nationalisation
- 1994 2014
 - Brand New Banks
- 2010 2020
 - NPA Mess
 - Financial Inclusion
- Current Situation

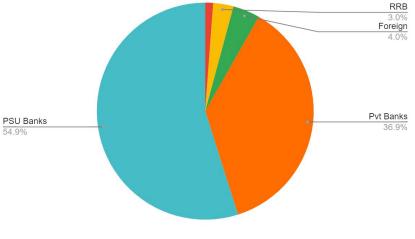
History of Banking Industry - India - Current situation



Deposits Market Share



Loans Market Share



0

History of Banking Industry - India

THE INSIDE STORY OF



SANDIP SEN

TAMAL BANDYOPADHYAY Foreword by Y. V. REDDY, former Governor, Reserve Bank of India BANK for the THE NEW BANK MOVEMENT

& the untold story of THE MAKING OF INDIA'S MOST VALUED BANK

JAICO



'Tamal brilliantly captures a story of hope and what it takes to lift millions

of Indians out of poverty' Deepak Parekh, chairman, HDFC Limited

TAMAL BANDYOPADHYAY

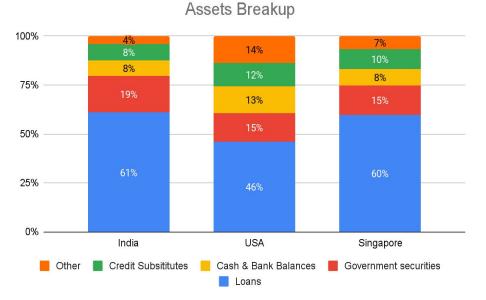
Foreword by KAUSHIK BASU

Inside the and How It Threatens Indian Bank System VEK KA

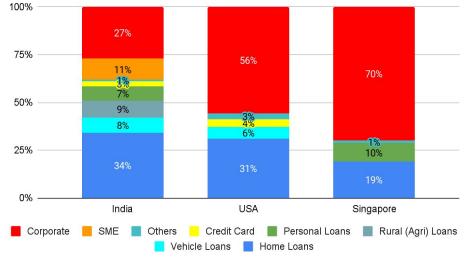
Traditional Bank Business Model

- Branch Driven Physical Touch Points
 - Expensive to setup branches and pay salaries of employees
- Relationship Cross Sell
 - \circ Fee Income
- Full Service Banking
 - Not Cost efficient to bank on single line
- Internet Banking
 - Still Required Branch Visits

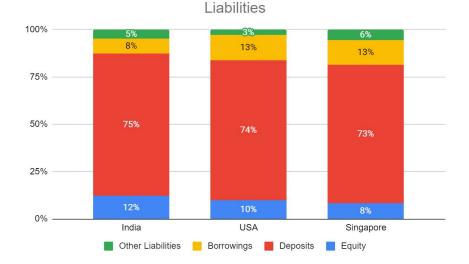
Traditional Bank Business - Assets & Liabilities

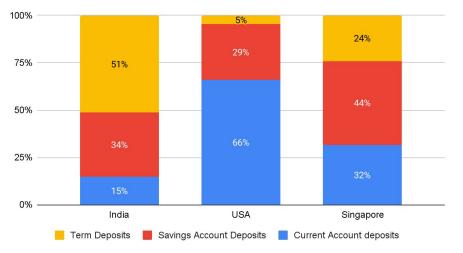


Loans Breakup



Traditional Bank Business - Assets & Liabilities





Deposits

Traditional Bank Business - RoTA Chain

| RoTA Chain | India | USA | Singapore |
|---------------------------------------|--------|--------|-----------|
| Interest Income / Avg Total Assets | 6.54% | 2.04% | 1.50% |
| Interest Expense / Avg Total Assets | 2.95% | 0.20% | 0.26% |
| Net Interest Margin (NIM) / Avg Total | | | |
| Assets | 3.59% | 1.84% | 1.24% |
| Other Income/ Avg Total Assets | 1.40% | 2.20% | 0.88% |
| Op Exp / Avg Total assets | 2.02% | 2.77% | 0.97% |
| Provisions / Avg Total Assets | 0.65% | -0.21% | 0.01% |
| Tax / Avg Total Assets | 0.55% | 0.29% | 0.14% |
| RoTA | 1.77% | 1.12% | 1.02% |
| Leverage | 8.29x | 10.7x | 12.25x |
| RoE | 14.68% | 12.00% | 12.50% |

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NeoBanks

Understanding NeoBanks

- Branchless digital only banks with no physical presence
- All services are online
- Tech savvy Platform approach to banking
- Mostly focused on retail and SME
- Expected to have Lower Operating and Credit Costs
- Additional sources of revenue through Platform approach

HONG KONG

- Livi VB (Granted a licence in 2019)
- Mox (Granted a licence in 2019)
- ZA Bank (Granted a licence in 2019)
- WeLab Bank (Granted a licence in 2019)
- Ant Bank (Hong Kong) (Granted a licence in 2019)
- Fusion Bank (Granted a licence in 2019)
- Airstar Bank (Granted a licence in 2019)
- Ping An OneConnect Bank (Granted a licence in 2019)

TMRW by UOB (2019)

ME by TMB (2012)*

VIETNAM

Timo by VPBank (2016)*

YOLO by VPBank (2018)*

OCTO by CIMB (2018)*

Digibank by DBS (2016)*

- 811 by Kotak Mahindra Bank (2017)*
- YONO by SBI (2018)*
- Airtel Payments Bank (2016)
- Fino Payments Bank (2017).
- Paytm Payments Bank (2017)
- Jio Payments Bank (2018)
- India Post Payments Bank (2018).
- NSDL Payments Bank (2018)

- Jenius by BTPN (2017)*
- Digibank by DBS (2017)*
- Tyme Digital by CBA (2017)*
- UOB Indonesia will launch TMRW in 2020*

Up to five digital banking licences to be issued.

CAMBODIA

- Liiv KB Gambodia (2016)*

SINGAPORE

Up to two digital full bank (DFB) licences and three digital wholesale bank (DWB) licences to be issued

K-Bank (2017)

Kakao Bank (2017)

Toss Bank (Granted a licence in 2019)

ING Bank (2019)# Tonik Digital Bank (2020)# RCBC will launch RCBC Digital in 2020#

JAPAN

- Japan Net Bank (2000)#
- Seven Bank (2001)#
- Rakuten Bank (2001)#
- SBI Sumishin Net Bank (2007)#
- Jibun Bank (2008)#

WeBank (2014)# MyBank (2015)# XW Bank (2016)# aiBank (2017)#

TAIWAN

- Richart! by Taishin International Bank (2016)* O-Bank (2017)#
- KOKO by Cathay United Bank (2017)*
- LINE Financial Taiwan (Granted a licence in 2019)
- Next Commercial Bank (Granted a licence in 2019)
- Rakuten International Commercial Bank (Granted a licence in 2019)

AUSTRALIA

- ING Bank (1999)#
- Ubank (2008)*
- UP by Bendigo and Adelaide Bank (2018)*
- Volt Bank (2018: Restricted; 2019: Full)
- Xinja (2018: Restricted; 2019: Full)
- Judo Bank (2019: Full)
- 86 400 (2019: Full)
- IN1Bank (2019: Restricted)

Source: The Asian Banker

CIMB (2019)#

Understanding NeoBanks - Regulations

- For NeoBanks : Financial Inclusion, Competition and Efficiency
- Against NeoBanks : Systemic Risk, Privacy and Security
- Solution : Digital Banking License with restrictions

| | | Singa | pore | · • • • • • • • • • • • • • • • • • • • | Mainland China | | | Korea | Malaysia | |
|---|--|--|---|---|--|--|--|---|---------------------------------------|--|
| | | DFB | DWB | Australia | Mainland China | HongKong | India | Korea | Malaysia | |
| Regulatory entity | | MAS | | ARPA | CBIRC | HKMA | RBI | FSC | BNM | |
| Digital bank licensing regime | | Ye | is | No | No | Yes | Yes | Yes | Yes | |
| | Financial inclusion | | | | | | | | | |
| Policy objectives | Enhancing competition | | | | | | | | | |
| | Improving efficiency | | | | | | | | | |
| Initial minimu paid-up capit | | \$10.7 million (SGD 15 million) | \$71.6 million (SGD 100 million) | \$2.7 million (AUD 4 million) / 20% of adjusted assets | \$285 million (RMB 2 billion) | \$38.6 million (HKD 300 million) | \$16 million (INR 1 billion) | \$20.6 million (KRW 25 billion) | \$24 million (MYR 100 million) | |
| Regulatory sa | andbox | Restricted DFB | Not specified | Restricted ADI | Not specified | Not specified | "In-principle" license | 2-3 years grace period | Foundational Phase | |
| Ownership restrictions | | Applicants must be anchored & headquartered in SG and controlled by Singaporeans | Applicants must be incorporated in SG | Not Specified | Maximum shareholding limit: 30% | Owned by bank/Fl or IHC subject to certain supervisory conditions | Promoters need to hold at least 40% in the first 5 years | Non-financial investor can't hold more than 34% | Not specified | |
| | Specific cap on deposits | | | | | | | | | |
| | Specific cap on credits | | | | | | | | | |
| Business restrictions (during the | Restrictions on deposit business | | | | | | | | | |
| sandbox stage, If it exists) | Restrictions on credit business | | | | | | | | | |
| | Others | Not allowed to safeguard other FIs or conduct proprietary trading activities | Not allowed to safeguard other Fls | Assets should not exceed A\$ 100mn | Only allowed to manage Type II / Type III accounts | Not specified | Not allowed to set up subsidiaries for providing non- banking financial services | Not specified | Assets should not exceed RM 2bn | |

Source: Asian Banker, central bank websites, and Bernstein analysis

Understanding NeoBanks - Enablers

- Digital Access Mobile and Internet
- Demographics and Economy
- Unbanked / Underbanked Population
- Infrastructure eKYC, Payments Network
- Regulatory willingness
- Slow to adapt Traditional Banks
- Gamification of banking

Understanding NeoBanks - India

| | Pureplay virtual banks (Neobanks) | (Autonomous) unit of traditional banks | Full-Stack (Licensed) Digital Bank | | |
|--------------------|--|--|--|--|--|
| Description | Standalone digital platforms that partner with incumbent licensed banks to offer tech driven niche / bouquet of products; differentiated on better UX, value added services etc. (Most Indian neobanks operate under this model) | Neobanking operations of traditional banks that function autonomously and compete with stand-alone neobanks through repackaging of existing offerings | Digital-only banks that have a fully operational banking license; offers independent financial products and services, raise capital and lend on their own | | |
| Indian Examples | Fi 💩 Oopen Jupiter | X digibank 811 | RBI is not allow this license in India | | |
| Global Examples | chime Klar | BBVA MOX | Revolut NU | | |

- Traditional Banks Opening Up Eg: ICICI Bank
- Payment Banks Eg: PayTM, Airtel Payments Bank and Fino Payments

Understanding NeoBanks - India





Understanding NeoBanks - Challenges

- Cost of Acqusition are still high for pure digital banks
- Tough to become the primary banker
- Regulatory restrictions hurt the ability to genreate Income
- Limited to simpler products and revenue streams
- Underwriting history yet to be seen

Understanding NeoBanks

- Digital Banking Strategy
 - HDFC Bank
 - ICICI Bank
 - Axis Bank
 - Kotak Bank

From the bestselling author of Augmented and Bank 3.0

BANK 4.0 Banking Everywhere, Never at a Bank

TT KING

www.brettking.com



Deeper Dive - Kakao Bank



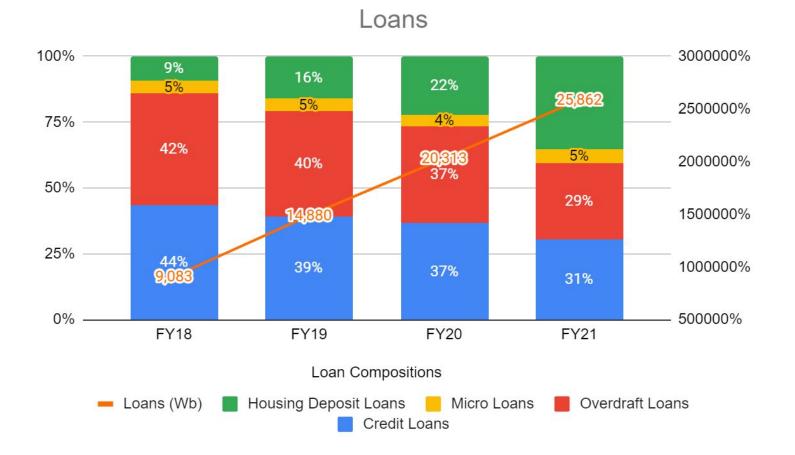
- EcoSystem Advantage
- 18 Million accounts of which 50% are below age of 40.
- Claims 64% of working age population bank with them



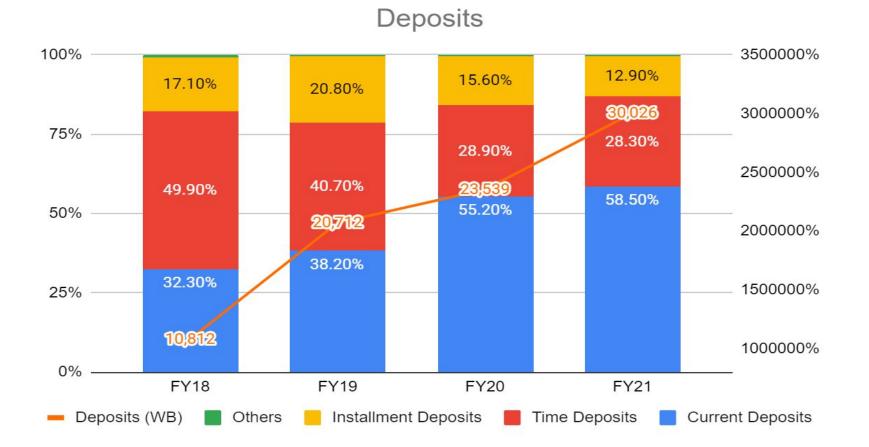
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| Division | Key products/services | 2021 Contribution | Division | Key products | Details ⁽¹⁾ |
|------------------------|--|----------------------|----------|-------------------------------|--|
| Interest | Loan interest Financial investment | 74% | Fee | Debitcard | Increase in debit card transaction value (YoY +23%) |
| income | interest | | ree | FX remittance | Increase in FX remittance volume (YoY +9%) |
| Feeincome | Debit card Firm banking Open banking | 16% | | Securities account | 5 partners (KB, NH, Korea Investment, Hana, Shinhan) |
| | FX remittance Fee + Securities account | | | Co- branded credit.card | 5 partners (Citi, Shinhan, Samsung, KB, Lotte) |
| Platform income | Loan referral Co-branded credit card Advertisement mini | 9% | Platform | Loan referral | 16 partners (8 savings bank, 7 capital co., 1 card co.) |
| | GainsonFX | | | mini | 1.15mn mini customers in the age of 14~18 |
| Others Source: Kaka | transactions Gain on sales of loan o Bank Presentation | 1% | | Advertise- ment | Ad partnership & inventory expansion |

Deeper Dive - Kakao Bank - Assets and Liabilities



Deeper Dive - Kakao Bank - Assets and Liabilities

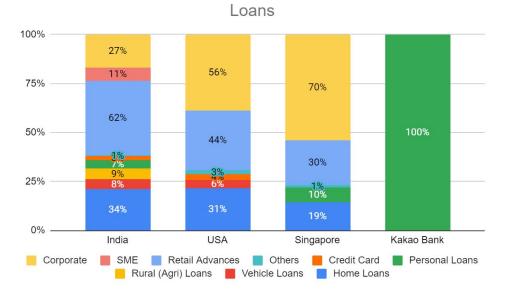


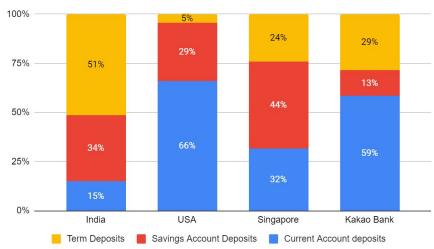
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Deeper Dive - Kakao Bank - RoTA Chain

| RoTA Chain | FY18 | FY19 | FY20 | FY21 |
|---------------------------------------|--------|--------|--------|-------|
| Interest Income / Avg Total Assets | 2.42% | 2.84% | 2.43% | 2.51% |
| Interest Expense / Avg Total Assets | 0.91% | 1.42% | 0.78% | 0.53% |
| Net Interest Margin (NIM) / Avg Total | | | | |
| Assets | 1.51% | 1.42% | 1.65% | 1.98% |
| Other Income/ Avg Total Assets | 0.67% | 0.98% | 0.83% | 0.89% |
| Op Exp / Avg Total assets | 3.15% | 3.53% | 2.51% | 2.28% |
| Provisions / Avg Total Assets | 0.12% | 0.21% | 0.25% | 0.29% |
| Tax / Avg Total Assets | 0.00% | 0.00% | 0.04% | 0.17% |
| RoTA | -0.17% | 0.08% | 0.46% | 0.65% |
| Leverage | 10.63x | 12.36x | 11.03x | 7.53x |
| RoE | -1.84% | 0.97% | 5.08% | 4.91% |

Comparing Business Models - Assets and Liabilities





Deposits

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Comparing Business Models - RoTA Chain

| 1 | | 1 | |
|--------|---|---|---|
| India | USA | Singapore | Kakao Bank |
| 6.54% | 2.04% | 1.50% | 2.51% |
| 2.95% | 0.20% | 0.26% | 0.53% |
| 3.59% | 1.84% | 1.24% | 1.98% |
| 1.40% | 2.20% | 0.88% | 0.89% |
| 2.02% | 2.77% | 0.97% | 2.28% |
| 0.65% | -0.21% | 0.01% | 0.29% |
| 0.55% | 0.29% | 0.14% | 0.17% |
| 1.77% | 1.12% | 1.02% | 0.65% |
| 8.29x | 10.7x | 12.25x | 7.53x |
| 14.68% | 12.00% | 12.50% | 4.91% |
| | 6.54% 2.95% 3.59% 1.40% 2.02% 0.65% 0.55% 1.77% 8.29x | 6.54%2.04%2.95%0.20%3.59%1.84%1.40%2.20%2.02%2.77%0.65%-0.21%0.55%0.29%1.77%1.12%8.29x10.7x | 6.54%2.04%1.50%2.95%0.20%0.26%3.59%1.84%1.24%1.40%2.20%0.88%2.02%2.77%0.97%0.65%-0.21%0.01%0.55%0.29%0.14%1.77%1.12%1.02%8.29x10.7x12.25x |

Valuing a NeoBank

- Traditional Bank P/BV
- Cost of Acquisition and payback period
- Average Revenue per user
- Active Customers x ARPU Cost of Acquisition and Servicing

NeoBanks - Future of Banking?

- Traditional Banks Still have an advantage Deposits and Customers
- Adapt to remain competitive
- Digital Banks within traditional banks
- Act as a base bank for digital banks

Dont have to panic but be on the lookout...

References

- Neobanking in India: The Matrix Upgraded Redseer Report
- Rise of Digital Banking Licences The Asian Banker
- Nu Holdings S1 filings
- Kakao Bank Annual Reports and filings
- Paytm and Fino RHPs
- RBI, US Fed
- Sell side Reports

Questions?