NeoBanks - Future of Banking?

Previously on FoF...



Money & Banking - Presentation by Rajeev Thakkar

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🐋 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

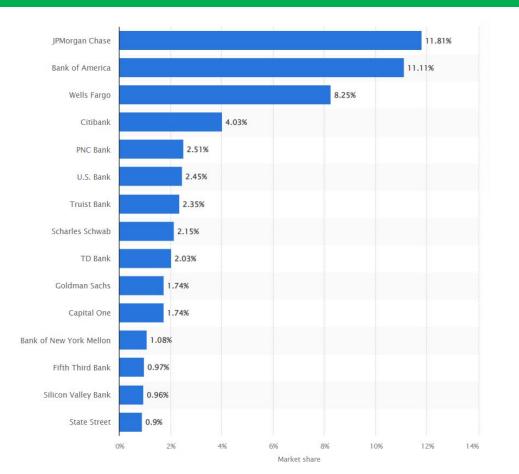
- As old as civilisation
- Bank is an Intermediary which connects those with excess funds (depositors) with those in need of funds (borrowers)
- Diversifies the Depositors risk by pooling
- Makes money on the interest rate differential
- Offers other related services for additional income
- Evolved over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

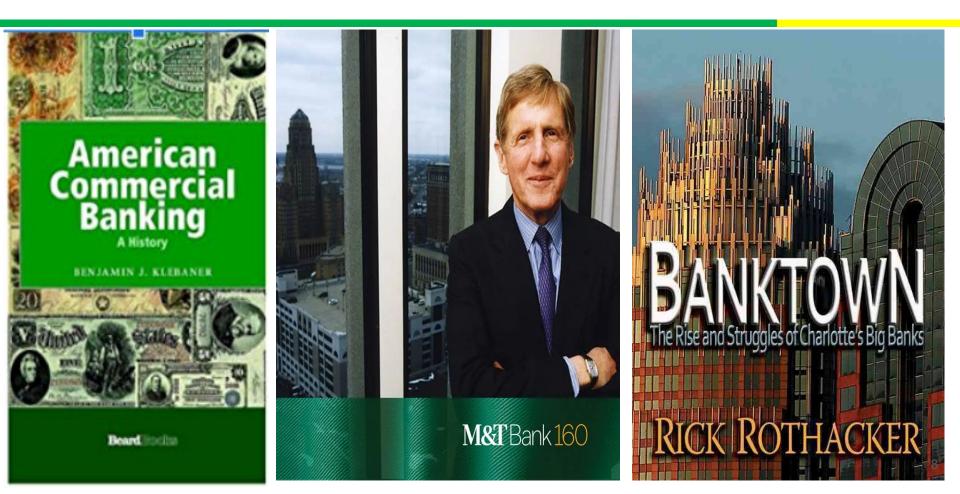
1990-1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
TRAVELERS GROUP														
CITICORP				CITIGROU	IP									
EUROPEAN AMERICAN BANK														CITIGROUP
BANAMEX														
WASHINGTON MUTUAL														
GREAT WESTERN FINANCIAL			-	WASHINGTON	MUTUAL									
H.F. 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

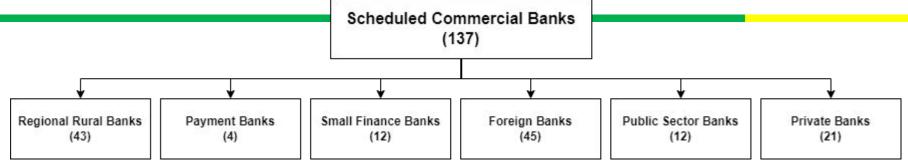
History of Banking Industry - USA



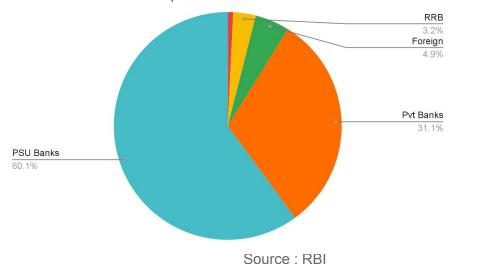
History of Banking Industry - India

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

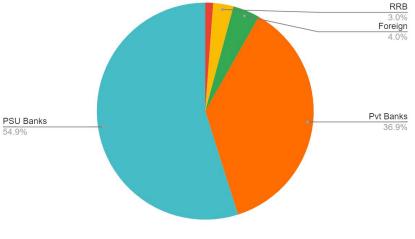
History of Banking Industry - India - Current situation



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

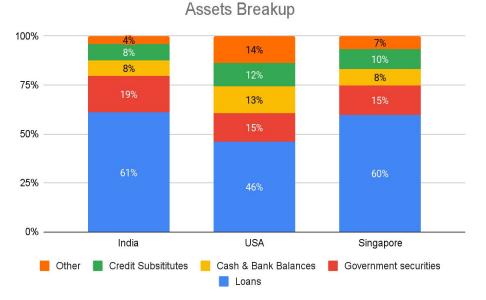
Foreword by KAUSHIK BASU

Inside the and How It Threatens Indian Bank System VEK KA

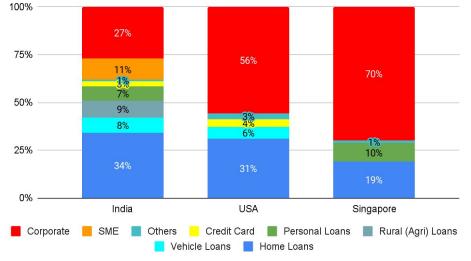
Traditional Bank Business Model

- 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

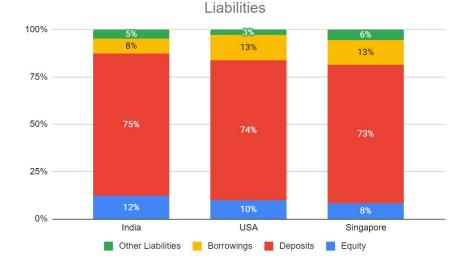
Traditional Bank Business - Assets & Liabilities

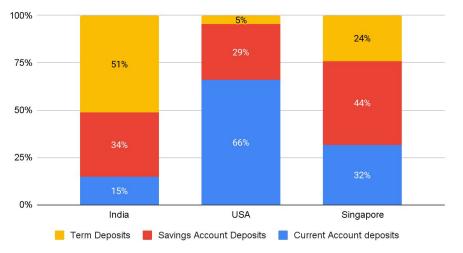


Loans Breakup



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

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Deeper Dive - Kakao Bank



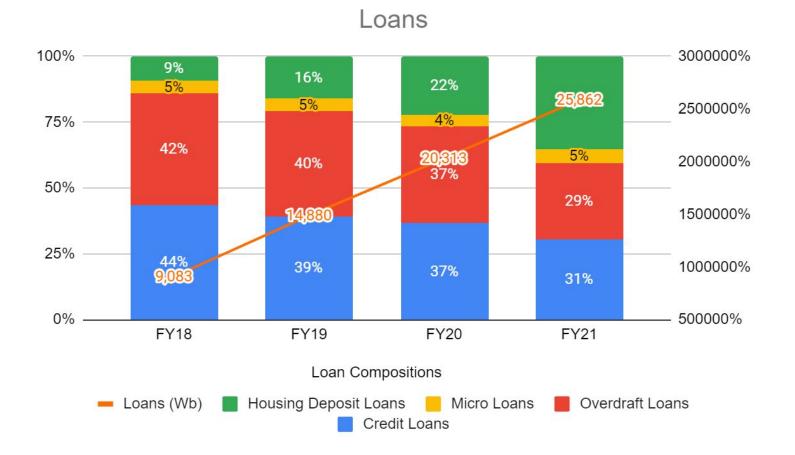
- EcoSystem Advantage
- 18 Million accounts of which 50% are below age of 40.
- Claims 64% of working age population bank with them



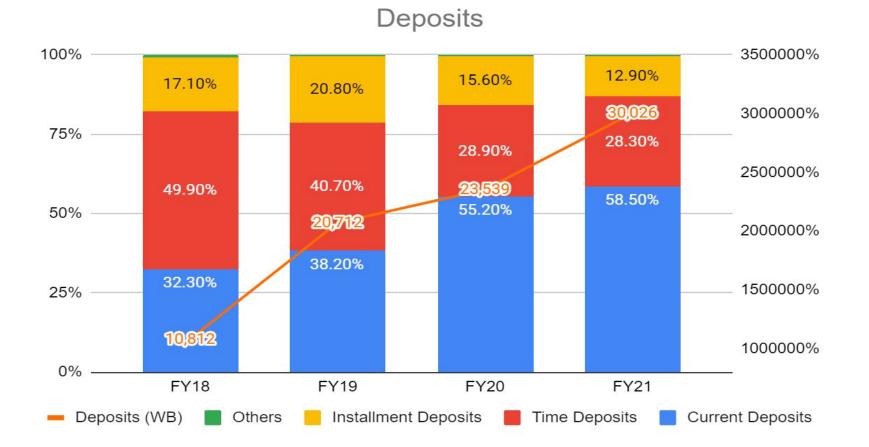
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Division	Key products/services	2021 Contribution	Division	Key products	Details ⁽¹⁾
Interest	Loan interest Financial investment	74%	Fee	Debitcard	Increase in debit card transaction value (YoY +23%)
income	interest		ree	FX remittance	Increase in FX remittance 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

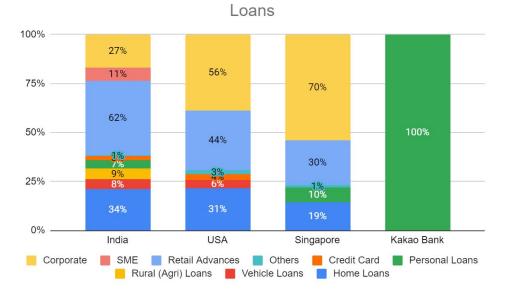


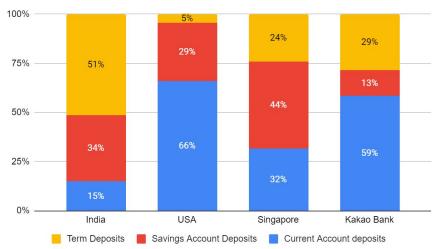
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Deeper Dive - Kakao Bank - RoTA Chain

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

30

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?