# Perspectives on the Indian Banking Sector

Several challenges will likely impinge upon the banking sector in India as it grapples with impairment in asset quality and convergence with Basel III and international accounting standards concurrently. Going forward, addressing asset quality concerns and strengthening banks' balance sheets to reinvigorate credit growth remain key priorities, within the overall objective of promoting a competitive and efficient banking sector.

### I. Introduction

- I.1 After several false starts, global growth and trade have been gaining traction in 2017 so far, supported by accommodative monetary policy and conducive financial conditions. Despite commodity prices firming up, inflation has remained quiescent in both advanced and emerging economies. Global financial markets have been generally buoyant and the effects of geopolitical events, including announcements, have been muted or short-lived. With accommodative policies in advanced economies (AEs) supporting asset prices and spurring a search for returns, investor appetite for emerging market economies (EMEs) as an asset class has been stoked, propelling capital flows to them, albeit with some discrimination against economies with relatively weaker macrofundamentals. Nonetheless, risks to the outlook are still tilted to the downside, with political and policy uncertainties posing threats to global financial stability. In this environment, banking regulators are preparing for the full implementation of Basel III prudential regulations and the adoption of the revised global accounting standards. In parallel, developments like FinTech and the growth of crypto currencies are presenting both opportunities and challenges.
- I.2 Although among the fastest growing large economies of the world, the Indian economy has

- been undergoing some slowdown by its own historical record during 2017-18, partly reflecting the transitory effects of the implementation of the goods and services tax (GST) from July 2017. Macroeconomic stability remains entrenched though, with inflation remaining moderate, the current account deficit contained well within sustainable limits and the fiscal deficit on the path of consolidation.
- I.3 Turning to the financial sector, impairment in the asset quality of the banking sector remains unconscionably high, necessitating sizeable provisioning and deleveraging, thereby constraining banks' capacity to lend. Consequently, profitability and capital positions of banks have faced some erosion, especially in the case of public sector banks (PSBs). In the process, businesses have increasingly switched to alternate and more cost-effective sources of funds to meet their financing needs, resulting in some disintermediation for banks.
- I.4 During the first-half of 2017-18, however, a modest pick-up in bank credit has occurred alongside the improvement in transmission that was observed post-demonetisation. Growth in gross advances of scheduled commercial banks (SCBs) improved to 6.2 per cent at end-September 2017 from 5.0 per cent at end-June 2017 due to improved credit delivery by both PSBs as well as private sector banks (PVBs).

Stressed assets of SCBs have begun to stabilise albeit at an elevated level. The total stressed assets (gross non-performing assets plus restructured standard advances) as per cent of gross advances were placed at 12.6 per cent and 12.2 per cent during Q1 and Q2 of 2017-18, respectively. Among bank groups, stressed assets of PSBs hovered around 16 per cent, while stressed assets of PVBs remained below 5 per cent. The slippage ratio of SCBs recorded a decline over the first half of 2017-18. Notwithstanding the elevated level of delinquency. profitability indicators as reflected in the return on assets have been stable at around 0.4 per cent. Capital positions (i.e., capital to risk-weighted assets ratio) improved to 13.9 per cent in Q2 of 2017-18, being much above the regulatory minimum (see chapter V for details).

I.5 On the other hand, balance sheets of nonbanking financial companies (NBFCs) grew on the back of credit expansion mainly by loan companies, asset finance companies and investment companies. NBFCs' consolidated balance sheet expanded by 6.5 per cent on a y-o-y basis, in the first half of 2017-18 with strong credit growth financed through higher borrowings. As against bank credit growth of 6.2 per cent during the first half of 2017-18, NBFCs' credit growth was 14.9 per cent, about seven percentage points higher than in the previous year. This was driven by strong growth in credit to retail and services sectors. Asset quality of NBFCs (non-deposit taking systemically important), which had recorded deterioration in Q1:2017-18, witnessed some improvement in Q2, partly reflecting higher write-offs (see chapter VII for details).

I.6 Against this backdrop, the rest of this chapter lays out a perspective on some issues that are likely to shape the banking ecosystem in the period ahead and inform the policy agenda.

### II. Emerging Issues and Policy Responses

I.7 Addressing asset quality concerns and strengthening banks' balance sheets to reinvigorate credit growth are clearly the highest priority. Improving accounting standards and nurturing competitive efficiency alongside niche competencies in the banking space are other elements of this drive. Strengthening and harmonising regulations across financial intermediaries and in adherence to global standards have been other focus areas. Concomitantly, promoting digitisation, managing technology-enabled financial innovations and dealing with cyber-security risks will entail strategic policy responses.

Resolution of Stressed Assets and Strengthening of Banks' Balance Sheets

I.8 The enactment of the Insolvency and Bankruptcy Code (IBC), 2016 and promulgation of the Banking Regulation (Amendment) Act, 2017 has significantly altered the financial landscape and imbued with optimism and resolve the concerted efforts that are underway for resolution of stress in balance sheets of banks and corporations in a time-bound and effective manner. The Reserve Bank's pre-emptive approach to recognition and resolution of incipient financial distress and the revised system of prompt corrective action (PCA) triggered in April 2017 are intended to instill confidence in the system that accumulation of excessive financial imbalances in the future will be prevented. The Government's in-principle approval in August 2017 for the consolidation of PSBs through an 'Alternative Mechanism' and the massive recapitalisation plan for PSBs announced in October 2017 as part of a comprehensive strategy to address banking sector challenges should make them strong and competitive as they gear up to meet the credit needs of a growing economy (see chapter IV for details).

I.9 The Reserve Bank has constituted a Highlevel Task Force on Public Credit Registry (PCR) (Chairman: Shri Yeshwant M. Deosthalee) for India to address information asymmetries that create opacity in credit markets, hindering efficient credit decisions, impeding effective riskbased supervision and excluding the financially disadvantaged. It will review the current availability of information on credit, the adequacy of existing information utilities and international best practices with the goal of developing a transparent, comprehensive and near real-time PCR for India. Besides improving the functioning of the credit market, the PCR is expected to foster financial inclusion, improve the ease of doing business and help control delinquencies in the banking system<sup>1</sup>.

Developing Robust Accounting Standards (IFRS-converged Ind AS)

International Financial Reporting Standards (IFRS) draw upon the lessons gleaned from the global financial crisis and attempt to close gaps in accounting practices. In India, the need for uniformity in identification of nonperforming assets (NPAs) at the system level has imparted urgency to the institution of the IFRSconverged Indian accounting standards (Ind AS). Banks are required to make provisions for expected credit loss (ECL) from the time a loan is originated, rather than waiting for 'trigger events' to signal imminent losses. Recognising and providing for actual and potential loan losses at an early stage in the credit cycle could potentially reduce procyclicality and foster financial stability2. As overall provisions are expected to increase significantly on initial

application of Ind AS effective April 1, 2018, the Reserve Bank has introduced a transitional arrangement, consistent with the Basel Committee provisions, to give banks time to build their capital.

### Promoting Differentiated Banking

With differentiated banks such as small finance banks (SFBs) and payments banks (PBs) commencing operations in 2016-17, the Reserve Bank has started exploring the scope of setting up wholesale and long-term finance (WLTF) banks focused primarily on lending to infrastructure sector and small, medium and corporate businesses. The Discussion Paper of April 2017 envisions the role for WLTF banks to include mobilising liquidity for banks and financial institutions through securitisation, acting as market makers, providing refinance to lending institutions, and operating in capital markets as aggregators. The envisioned heterogeneous banking structure will complement and compete with universal banking institutions and enhance financial inclusion while meeting the diverse credit needs of a growing economy.

Strengthening and Harmonising Banking Sector Regulation

I.12 The Reserve Bank has adopted Basel III norms for implementation in a phased manner. Apart from an improved capital framework and liquidity ratios like the liquidity coverage ratio (LCR) and the upcoming net stable funding ratio (NSFR), the Reserve Bank has also been aligning the regulatory and supervisory frameworks for NBFCs, all India financial institutions (AIFIs) and co-operative banks with that of commercial banks

Acharya, Viral V. (2017), "A Case for Public Credit Registry in India", Theme Talk delivered at the 11th Statistics Day Conference held at the Reserve Bank of India, Central Office, Mumbai on July 4.

<sup>&</sup>lt;sup>2</sup> Patel, Urjit R. (2017), "Financial Regulation and Economic Policies for Avoiding the Next Crisis", 32<sup>nd</sup> Annual G30 International Banking Seminar, Inter-American Development Bank, Washington, D.C., October 15.

with the objective of eschewing regulatory arbitrage.<sup>3</sup> Moreover, the Ind AS standards prescribed for commercial banks, have been made mandatory for both AIFIs and NBFCs from April 2018. A formal PCA framework has been introduced for NBFCs from March 30, 2017 and a comprehensive Information Technology (IT) framework from June 8, 2017. Multiple categories of NBFCs are being rationalised into fewer categories. Along with strengthening co-operative

banks through consolidation, the tiers in the cooperative structure are also being reduced.

I.13 The medium-term goal is to move towards activity-based regulation rather than entity-based regulation. In this context, the evolution of regulatory practices in other jurisdictions *vis-à-vis* the Basel III guidelines in the post-global financial crisis period offers interesting insights that could inform the approaches being envisaged in India (Box I.1).

### Box I.1: Proportionality in Banking Regulation - A Global Perspective

It is argued that the post-crisis global regulatory response has resulted in a robust but complex regulatory framework focused significantly on addressing systemic risks posed by financial institutions while being onerous on non-systemic entities. In turn, this has triggered an intense debate on the principle of 'proportionality' in banking regulation, *i.e.*, how best to tailor regulatory requirements to non-internationally active banks, especially smaller and less complex ones (Carvalho, *et. al.*, 2017).

The proportional regulation approach is not new. Under Basel II, the characterisation of market risk marked the beginning by offering both a standardised approach and an internal model-based approach. Pillar 2 under Basel II contains elements of proportionality as supervisors are allowed to take into account size, complexity, business model and risk profiles of individual banks in exercising their judgement. In this context, the Basel framework suggests that national jurisdictions can adopt domestic regulations that exceed the minimum.

Some countries have decided to apply the Basel standards on capital, liquidity and disclosure requirements to a wider set of banks, while some others have opted for the proportional use of regulations depending on the risks they pose to financial stability. Several jurisdictions have implemented specific regulatory standards for smaller and

less complex banks. With the introduction of risk-based supervision, the principle of proportionality has played an important role in day-to-day bank supervision. A comparison of the proportionality approaches (beyond what is offered by the Basel framework) that have already been applied or are planned in six jurisdictions, namely, Brazil, the European Union (EU), Hong Kong SAR, Japan, Switzerland and the United States (US) brings out interesting facets (Table 1).

The US and Brazil apply Basel-based standards to large international banks, although the alternative prudential requirements applied to other banks are not necessarily less stringent. Banks are divided into specific categories based on size/international activity in Brazil, Japan and Switzerland and banks in the same category are subjected to the same set of regulations, while in the EU, the US and Hong Kong, rules corresponding to specific Basel standards are adjusted for banks meeting the set criteria. Exemptions from the Basel standards have often been applied to the liquidity framework, disclosure requirements, counter-party credit risks, large exposure framework and measurement of market risk. The principle-based regulations like Pillar 2 and interest rate risk in the banking book offer scope to further reduce the regulatory burden.

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In view of the inherent risk, there is higher minimum capital requirements of 15 per cent for the newly licensed SFBs, along with subjecting them to all prudential norms and regulations as applicable to universal commercial banks. PBs are also subjected to 15 per cent minimum capital requirements along with a minimum leverage ratio of 3 per cent as against 4.5 per cent for commercial banks at present. The prescribed minimum capital requirements for NBFCs also stands at 15.0 per cent. Further, all co-operative banks are also required to achieve and maintain a minimum CRAR of 9 per cent from March 31, 2017 as part of harmonisation of capital regulations. As part of the revised regulatory framework for the AIFIs, the Reserve Bank proposes to extend various elements of Basel III standards, after due consultations with stakeholders.

Table 1:	Targeted	Areas for	r Proportional	Regulations -				
Select Jurisdictions								

Basel Pillars/ Issues	Brazil	European Union	0	Japan	Switzer- land	
Pillar 1						
Liquidity regulation (LCR and NSFR)	Yes	Yes	Yes	Yes	Yes	Yes
Counterparty credit risk	Yes*	Yes*	Yes	No	Yes	Yes
Large exposures framework	Yes*	Yes	Yes*	No	Yes	Yes*
Credit risk	Yes*	No	Yes	No	Yes	Yes
Market risk	Yes*	Yes	Yes	Yes	Yes	Yes
Minimum capital ratios	No	No	No	Yes	No	No
Pillar 2						
Interest rate risk in the banking book	Yes*	Yes	No	No	Yes*	Yes
Capital planning and supervisory review**	Yes	Yes	No	Yes	Yes	Yes
Pillar 3						
Disclosure requirements	Yes*	Yes*	Yes	No	Yes	Yes

<sup>\*:</sup> Expected; \*\*: Including stress testing.

**Source**: Carvalho, Ana Paula Castro, S. Hohl, R. Raskopf and S. Ruhnau (2017), "Proportionality in Bank Regulation: A Cross-country Comparison", *FSI Insights* No.1, August, Financial Stability Institute, Bank for International Settlements (BIS).

The advocacy for proportionality in regulation, inter alia, includes (i) the costs imposed by regulation on regulatory agencies, regulated entities and customers; (ii) unintended consequences such as changes in business models of banks; (iii) the potential for disproportionate regulation to induce arbitrage within the financial system, with the danger of migration of activities towards less-regulated institutions and the capital market; (iv) the possibility of disproportionate regulation undermining competition by increasing barriers to entry for new entrants, especially small players; and (v) the potential for generating wider costs to the economy when regulations distort some of the basic functions of the financial system. Thus, proportionality is about balancing costs and benefits of regulation (European Banking Authority's Banking Stakeholder Group, 2015). Proportionality should entail rules which are simpler but not necessarily less stringent (Carvalho, et. al., 2017).

#### References:

Carvalho, Ana Paula Castro, S. Hohl, R. Raskopf and S. Ruhnau (2017), "Proportionality in Bank Regulation: A Cross-country Comparison", FSI Insights No.1, August, Financial Stability Institute, Bank for International Settlements (BIS).

European Banking Authority's Banking Stakeholder Group (2015), Report on Proportionality in Bank Regulation, December

Reserve Bank of India (2016), "Basel III Capital Regulations", March 31, Available at https://rbidocs.rbi.org.in/rdocs/content/pdfs/58BS300685FL.pdf

## Promoting Digitisation and Managing Technology Enabled Financial Services

I.14 Recent initiatives<sup>4</sup> have opened up vast opportunities for both the incumbent financial institutions as well as for FinTech<sup>5</sup> to introduce large scale innovations in financial services that

permeate to 'last mile' touchpoints and boost financial inclusion. The Government's Start-Up India programme, which aims to nurture innovations, and the India Stack platform, which offers a state-of-the-art technological framework to businesses, startups and developers aimed at presence-less, paperless and cashless service

<sup>&</sup>lt;sup>4</sup> Pradhan Mantri Jan Dhan Yojana (PMJDY) for promoting financial inclusion, Aadhaar-enabled eKYC verification and linking with bank accounts to facilitate seamless financial transactions and development of robust payment infrastructure such as unified payments interface (UPI) for instant real-time digital payments.

<sup>&</sup>lt;sup>5</sup> FinTech is defined as technology-enabled innovation in financial services that could result in new business models, applications, processes or products with an associated material effect on the provision of financial services (FSB, 2017).

delivery, provide a conducive environment for accelerated growth of FinTech<sup>6</sup>, which would pave way for leveraging new technology in the provision of financial services.

I.15 From a global perspective, FinTech innovations are bringing in alternatives to fiat

currency, challenging various forms of traditional financial intermediation and even the conventional monetary system. International standard setting bodies are increasingly focusing attention on understanding the opportunities and risks associated with the FinTech revolution (Box I.2).

### Box I.2: The FinTech Revolution: Impetus, Opportunities and Risks

Globally, technology-enabled innovations in financial services (popularly known as FinTech) have been growing rapidly in the past few years, at both retail and wholesale levels. From an analytical perspective, FinTech activities are classified into five categories of financial services: (i) payments, clearing and settlement; (ii) deposits, lending and capital raising; (iii) insurance; (iv) investment management; and (v) market support.

The FinTech landscape has been evolving. Global investment in FinTech increased rapidly till 2015. Subsequently, despite moderation, it remains robust, registering US \$8.2 billion in aggregate in Q3 2017 across 274 deals (*The Pulse of FinTech Q3 2017*, KPMG). Simultaneously, there is significant adoption of FinTech across major markets (Chart 1). FinTech activities are also growing rapidly, as reflected in the sharp increase in the market size of FinTech credit in certain jurisdictions, although they remain small relative to overall credit (Table 1).

Driving the FinTech revolution are forces, such as (i) consumer preference for convenience, speed, cost effectiveness and user-friendliness in financial interactions; (ii) technological advancement related to internet, big data, mobile telephony, and computing power; and (iii) changing

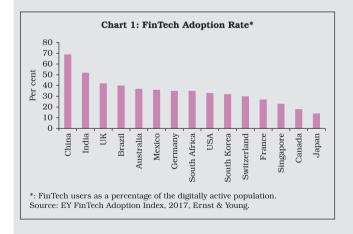


Table 1: Size of FinTech Credit Market by Jurisdiction
(US\$ Million)

	2013	2015
China	5,547	99,723
USA	3,757	34,324
UK	906	4,126
Japan	79	326
Australia	12	276
Germany	48	205
France	59	201
Canada	8	71
South Korea	1	38
Singapore	0	21
India	4	20

**Source:** Financial Stability Board (2017), Report on 'FinTech Credit: Market Structure, Business Models and Financial Stability Implications', May 22.

financial regulations and supervisory requirements. The emergence of FinTech is also attributed to the high cost of financial intermediation by incumbents, despite significant improvements in information technology (IT), pointing towards inefficiency of the existing system. Estimates suggest that the unit cost of financial intermediation in the US has remained around 2 per cent for the past 130 years, with only a marginal decline since the crisis (Philippon, 2017). It is similarly high in other major countries like Germany, the UK and France (Bazot, 2013). This implies that the benefits of improvements in IT have not percolated to the end-users of financial services.

Although the size of FinTech is small relative to the global financial services sector at present (BCBS Consultative Document, BIS, August 2017), it has the potential to transform the way that financial services are delivered and designed as well as fundamentally alter the underlying

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<sup>&</sup>lt;sup>6</sup> The PwC's FinTech Trends Report, 2017 notes that over 95 per cent of financial services incumbents in India seek to explore FinTech partnership.

processes of payments, clearing, and settlement (Brainard, 2016). Today, it has permeated across the entire financial services value chain and in the process has demonstrated the potential to directly compete with/challenge the traditional financial intermediation by banks. The true promise of FinTech springs from its adeptness at unbundling banking into its core functions of settling payments, performing maturity transformation, sharing risk and allocating capital (Carney, 2017). This potential is being driven by new entrants – payment service providers, aggregators and robo advisers, peer-to-peer lenders and innovative trading platforms.

As many FinTech innovations have not yet been tested through a full financial cycle, it is important to analyse both the potential benefits and risks from the perspective of financial stability. The potential benefits include (i) decentralisation and increased intermediation by nonfinancial entities; (ii) greater efficiency, transparency, competition and resilience of the financial system; and (iii) greater financial inclusion and economic growth, particularly in emerging market and developing economies (FSB, 2017). Potential risks include (i) micro-financial risks such as credit risk, leverage, liquidity risk, maturity mismatches and operational risks, especially cyber and legal risks; and (ii) macro-financial risks such as unsustainable credit growth, increased interconnectedness or correlation, procyclicality and contagion incentives for greater risk-taking by incumbent institutions.

The FSB (2017) has identified ten issues, three of which are considered as priorities for international cooperation, viz., managing operational risks from third-party service providers; mitigating cyber risks; and monitoring macrofinancial risks. Moreover, it recommends that national authorities should pay attention to cross-border legal issues and regulatory arrangements, develop governance and disclosure frameworks for big data analytics, assess the regulatory perimeter and update it on a timely basis. Regulators should also encourage shared learning with a diverse set of private sector parties. Open lines of communication need to be developed across relevant authorities, build staff capacity in new areas of required

expertise and study alternative configurations of digital currencies.

Although many of these issues are not new, they are important for promoting financial stability, fostering responsible innovation and developing a more inclusive financial system. As regards regulation, a consensus is emerging that it should aim at creating a conducive environment for FinTech to grow without compromising investor trust and confidence, efficiency and integrity of the market and the stability of the financial system.

A stocktake of regulatory approaches to FinTech by the FSB reveals that the most common model is the "regulatory sandbox", where new products or services can be tested in a (controlled) environment. This is used by Australia, Canada, Hong Kong, Korea, Netherlands, Singapore and the UK, while Mexico, Turkey and Saudi Arabia are considering this model, and Indonesia is in the process of establishing a regulatory sandbox. Other approaches include "innovation accelerators" and "innovation hubs" as well as other forms of interaction, in order to promote innovation and improve interactions with new FinTech firms.

### References:

Bazot, G. (2013), "Financial Consumption and the Cost of Finance: Measuring Financial Efficiency in Europe (1950-2007)", Working Paper, Paris School of Economics.

Brainard, Lael (2016), "The Opportunities and Challenges of FinTech", Remarks at the Conference on Financial Innovation at the Board of Governors of the Federal Reserve System, Washington, D.C., December.

Carney, Mark (2017), "The Promise of FinTech – Something New Under the Sun?", Speech delivered at the Deutsche Bundesbank G20 Conference on "Digitising Finance, Financial Inclusion and Financial Literacy", Wiesbaden, Germany, January 25.

Financial Stability Board (2017), "Financial Stability Implications from FinTech: Supervisory and Regulatory Issues that Merit Authorities' Attention", June.

Philippon, Thomas (2017), "The FinTech Opportunity", BIS Working Papers, No. 655, August.

Bringing FinTech under the regulatory ambit should provide a level-playing field and encourage financial innovations. In this context, the Reserve Bank is working on framing an appropriate response to the regulatory challenges posed by developments in FinTech in India.

### Managing Cyber Security Risks

I.16 The policy push towards digitisation of the financial system to realise the goal of a less-cash economy hinges crucially on the safety and security of financial transactions enabled by a

robust cyber-security framework. In recognition, the Reserve Bank has been advising banks to improve their security preparedness on a continuous basis. As proposed in the Sixth Bimonthly Monetary Policy Statement, 2016-17 on February 8, 2017, an inter-disciplinary Standing Committee has been constituted to, *inter alia*, review the threats inherent in the existing/emerging technology on an ongoing basis and suggest appropriate policy interventions to strengthen cyber security and resilience.

## III. The Way Forward

I.17 In the fast changing financial landscape, banks will need to rework their business strategies, innovate on products tailored to customers' needs, and improve efficiency in the delivery of customer-centric financial services to regain their role as principal financial intermediaries. Given India's relatively low credit penetration<sup>7</sup>, this may even be a desirable outcome so as to enhance credit flow and revive the investment cycle.

I.18 As regards stress in the banking system, banks can take advantage of the IBC to clean up their balance sheets and improve performance on a sustained basis to remain competitive. Instead of waiting for regulatory directions, banks can file for insolvency proceedings on their own<sup>8</sup> to realise promptly the best value for their assets. In conjunction, banks need to strengthen their due diligence, credit appraisal and post-sanction loan monitoring to minimise the risks of such

occurrence in future. In this regard, the setting up of a transparent and comprehensive PCR will help address information asymmetry and enhance efficiency of the credit market<sup>9</sup>. Embedded in the jump in India's ranking in the World Bank's 'Doing Business Report 2018' (to 100 from 130 in the previous year) was an improvement in the 'ease of getting credit' (increase in score from 65 to 75).

I.19 With a comprehensive time-bound resolution mechanism in place under the IBC efforts are underway to broaden reforms. The Financial Resolution and Deposit Insurance Bill, 2017 introduced in the Lok Sabha on August 10, 2017 seeks to provide speedy and efficient resolution of distress for certain categories of financial service providers and recommends establishment of a Resolution Corporation (RC) for protection of consumers of specified service providers and of public funds. This is also expected to address the moral hazard problem associated with various forms of government guarantees.

I.20 In an increasingly interconnected financial system, banks and financial institutions can benefit each other by improving corporate governance. This is more in the nature of self-regulation with safeguards to ensure that principles and rules laid down by the regulators are followed conscientiously<sup>10</sup>.

I.21 Banks have been preparing to fully comply with the new IFRS-converged Indian accounting standards beginning April 1, 2018 by building adequate capital to meet the increase in provisioning

<sup>&</sup>lt;sup>7</sup> Bank credit to non-financial corporations in India stood at around 48 per cent of GDP in Q1 2017 as against over 93 per cent for the G-20 (Bank for International Settlements (BIS)).

<sup>&</sup>lt;sup>8</sup> Acharya, Viral V. (2017), "The Unfinished Agenda: Restoring Public Sector Bank Health in India", Speech delivered at the 8<sup>th</sup> R. K. Talwar Memorial Lecture, September.

<sup>&</sup>lt;sup>9</sup> Acharya, Viral V. (2017), op. cit.

<sup>10</sup> Patel, Urjit R. (2017), op. cit.

requirements on account of shift to the ECL reporting system.

I.22 Bank customers/borrowers are likely to demand more transparency in fees levied and interest rates charged on various financial services/products. In this context, the recommendations of the Reserve Bank's "Internal Study Group to Review the Working of the Marginal Cost of Funds Based Lending Rate (MCLR) System" to shift from internal benchmarks like the base rate or MCLR-based loan rate setting to an external benchmark warrant consideration. The Group also recommends that the spread over the external benchmark should remain fixed all through the term of the loan, the reset period on all floating rate loans should be reduced from once in a year to once in a quarter, and banks should be encouraged to accept bulk deposits at floating rates directly linked to the external benchmark.

I.23 Banks face sustained competitive pressure to increase efficiency and productivity by leveraging on technological developments and product innovations. In this regard, banking with the unbanked may probably give banks an edge over other financial intermediaries by leveraging on their branch networks. Customers at the bottom of the pyramid may hold the key to big business opportunities. FinTech developments globally are targeting *hitherto* excluded sections of the population and/or small businesses<sup>11</sup>.

I.24 Given the potential of the micro, small and medium enterprises (MSMEs) sector in India (around 51 million units contribute 8 per cent of

GDP, 45 per cent of manufacturing output, 40 per cent of exports, and employment for 120 million persons), FinTech lending companies and market-based lending could provide an alternative source of finance and fill the large funding gap faced by small businesses<sup>12</sup>, a phenomenon observed across EMEs<sup>13</sup>. The availability of large digital databases on potential borrowers, mobile density, e-commerce and usage of smart-phone based services is likely to reduce the cost of assessing creditworthiness of SMEs. Banks may also adopt financial technologies for making credit decisions and/or even enter into strategic collaborations with agile FinTech firms.

1.25 A Trade Receivables Discounting System (TReDS) has been introduced as an institutional mechanism for facilitating the financing of trade receivables of MSMEs. All the three entities that had received in-principle approval were issued final Certificates of Authorisation and have commenced operations during the year.

I.26 In a digital environment, it becomes incumbent on banks to have an effective cyber-security policy as part of their overall risk management framework. Cyber-attacks entail a reputational risk for banks, as they undermine customer confidence. The Reserve Bank has been issuing guidelines from time to time to enhance cyber-security awareness and to collaborate with the industry in upgrading cyber-security resilience on an ongoing basis.

I.27 To sum up, the Indian economy is undergoing structural transformation. At this

<sup>&</sup>lt;sup>11</sup> According to PwC's FinTech Trends Report, 2017, there are roughly 1500 FinTech startups, big and small, operating in India, and almost half were set up in the past two years.

 $<sup>^{12}</sup>$  A Report by Deloitte "FinTech in India: Ready for Breakout" released in July 2017 estimates the credit gap in India's MSE segment (with annual revenue up to ₹30 million) at ₹8.33 trillion.

<sup>&</sup>lt;sup>13</sup> According to the World Bank (SME Finance Brief, September 1, 2015), the total credit gap for both formal and informal SMEs in EMEs is as high as US\$ 2.6 trillion.

juncture, reaping the full benefits of demographic, technological and financial developments appear critical for sustaining high and inclusive growth. This requires strategic coordination between conventional banks and new players like small finance banks, payments banks and also FinTech entities for providing financial services/

products in an efficient and cost-effective manner. Supportive prudential regulations aimed at promoting financial innovations without compromising safety of financial transactions, integrity of financial markets and stability of the financial system are imperative to facilitate this silent revolution.