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Role of Information Technology in Banking Sector's Development of India- a Study

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Abstract

Ever since the nationalization of banks in India, this sector has been growing without Leaps and bounces and catering to the needs of various segments of the society. In recent times, the Banking Sector has been making rapid straights by using information technology as a platform and endeavoring to scale higher heights. An attempt has been made in this paper to examine various innovative instruments that have been introduced by Banks in recent times. Liberalization and Information technology has attracted many foreign banks to India, thereby opening up new markets, new products and efficient delivery channels for the banking industry. In the development of Indian Economy, Banking sector plays a very important and crucial role. With the use of technology there had been an increase in penetration, productivity and efficiency. It has not only increased the cost effectiveness but also has helped in making small value transactions viable. It also enhances choices, creates new markets, and improves productivity and efficiency. It has been noticed that financial markets have turned into a buyer's markets in India. Commercial Banks in India are now becoming a one-stop Supermarket. The focus is shifting from mass banking to class banking with the introduction of value added and customized products. Technology allows banks to create what looks like a branch in a business building's lobby without having to hire manpower for manual operations. The branches are running on the concept of 24 X 7 working, made possible by the use of Tele banking, ATMs, Internet banking, Mobile banking and E-banking. These technologies driven delivery channels are being used to reach out to maximum number of customers at lower cost and in most efficient manner. The beauty of these banking innovations is that it puts both banker and customer in a win-win situation. Effective use of technology has a multiplier effect on growth and development.

Keywords: Banking Sector, Risk Management, Automated Systems and Processes, Mobile Banking, EFT and Knowledge Management.

Introduction: India is one of the top 10 economies in the world, where the banking sector has tremendous potential to grow. The last decade saw customers embracing ATM, internet and mobile banking. India's banking sector is currently valued at Rs. 81 trillion (US\$ 1.31

trillion). It has the potential to become the fifth largest banking industry in the world by 2020 and the third largest by 2025, according to an industry report. The face of Indian banking has changed over the years. Banks are now reaching out to the masses with technology to facilitate greater ease of communication, and transactions are carried out through the Internet and mobile devices. The banking system in India should not only be hassle free but it should be able to meet the new challenges posed by the technology and any other external and internal factors. For the past three decades, India's banking system has several outstanding achievements to its credit. The Banks are the main participants of the financial system in India. The Banking sector offers several facilities and opportunities to their customers. All the banks safeguards the money and valuables and provide loans, credit, and payment services, such as checking accounts, money orders, and cashier's cheques. The banks also offer investment and insurance products. As a variety of models for cooperation and integration among finance industries have emerged, some of the traditional distinctions between banks, insurance companies, and securities firms have diminished. In spite of these changes, banks continue to maintain and perform their primary role—accepting deposits and lending funds from these deposits. With the globalization trends world over it is difficult for any nation big or small, developed or developing, to remain isolated from what is happening around. For a country like India, which is one of the most promising emerging markets, such isolation is nearly impossible. More particularly in the area of Information technology, where India has definitely an edge over its competitors, remaining away or uniformity of the world trends is untenable. Financial sector in general and banking industry in particular is the largest spender and beneficiary from information technology. This endeavors to relate the international trends in it with the Indian banking industry. The last lot includes possibly all foreign banks and newly established Private sector banks, which have fully computerized all the operations. With these variations in the level of information technology in Indian banks, it is useful to take account of the trends in Information technology internationally as also to see the comparative position with Indian banks. The present article starts with the banks perception when they get into IT up gradation. All the trends in IT sector are then discussed to see their relevance to the status of Indian banks.

Importance of the Study: The use of Information Technology in all spheres of financial and banking sectors is a deep reality. The sector has enabled the banking sector to go beyond its traditional role and is now playing an increasingly important role in its key areas of operation as securitization, risks preference and liquidity among others to which IT helps in a big way. It has assumed such high levels that it is no longer possible for banks to manage their IT implementations on a standalone basis. With I.T. revolution, banks are increasingly interconnecting their computer systems not only across branches in a city but also to other geographic locations which high-speed network infrastructure and setting up local areas and networks are now exposed to a growing number. The customers have high expectations and have become more demanding now as they are also more techno-savvy as compared to their counterparts of the yesteryears. They demand instant, anything and anywhere banking facilities. Though Reserve Bank of India has formulated many policies

on adoption of I.T. in the overall working of the commercial banks in India, yet there is an urgent need to address the issues involved in this respect to compete with the banks at international level. As such there is a great need to focus more on this aspect. The present study helps a lot in this regard.

Objectives of the Study:

The study has following objectives:

- To find out the progress of computerization in all the public sector banks of India.
- To analyze the banking innovations after computerization of public sector banks of India.
- To analyze the ATM progress in the public sector banks of India.
- To identify challenges in the implementation of I.T. solutions in the public sector banks of India.

Research Methodology: The present study is based on the secondary data collected from different journals, magazines, sites and published data from various issues of RBI and different Public sector banks. Various studies on this subject have also been referred in this study. Moreover, some important information is also collect from relevant websites. The present study is descriptive in nature.

Revolution of Information Technology in Banks: Technology is the key to servicing all customer segments – offering convenience to the retail customer and operating efficiencies to corporate and government clients. The increasing sophistication, flexibility, and complexity of product and servicing offerings makes the effective use of technology critical for managing the risks associated with the business. Developing or acquiring the right technology, deploying it optimally, and then leveraging it to the maximum extent is essential to achieve and maintain high service and efficiency standards while remaining cost-effective and delivering sustainable returns to shareholders. Early adopters of technology acquire significant competitive advantage. Managing technology is, therefore, a key challenge for the Indian banking sector. Wide disparities exist between various banks as far as technology capabilities are concerned; the sector as a whole needs to make significant progress on this front.

Banks may have to go for mobile banking services for a cluster of villages. Alternatively, technological institutions have to come out with low-cost, self-service solutions/ ATMs. The government and the RBI should actively support such research efforts. Here, it is worthwhile to mention that the adaptability of the Indian rural population to high-tech devices is one of the fastest in the world. A wider dissemination of information on technologies and products to the Indian banking industry by the research institutions could benefit the banking institutions. This cross-pollination of ideas would mutually enrich the banking and the technology development processes. The Indian banks are subject to tremendous pressures to perform as otherwise their very survival would be at stake. The

application of IT and e-banking is becoming the order of the day with the banking system heading towards virtual banking.

Technological Development in Banks: Developments in the field of information technology strongly supports the growth and inclusiveness of the banking sector by facilitating inclusive economic growth. IT improves the front end operations with back end operations and helps in bringing down the transaction costs for the customers. The important events in the field of IT in the banking sector in India are:

- Arrival of card-based payments- Debit/ Credit card in late 1980s and 90s.
- Introduction of Electronic Clearing Services (ECS) in late 1990s.
- Introduction of Electronic Fund Transfer (EFT) in early 2000s.
- Introduction of RTGS in March 2004.
- Introduction of National Electronic Fund Transfer (NEFT) as a replacement to Electronic Fund Transfer/Special Electronic Fund Transfer in 2005/2006.
- CTS in 2007.

Emerging Trends in Banking Technology:

- ✓ Financial Inclusion
- ✓ Mobile Banking
- ✓ Electronic Payments
- ✓ CRM Initiatives
- ✓ IT Implementation and Management
- ✓ IT for Internal Effectiveness
- ✓ Managing IT Risk
- ✓ IT for business innovation

Challenges and Opportunities: The Indian banking sector continues to face some structural challenges. We have a relatively large number of banks, some of which are sub-optimal in size and scale of operations. On the regulatory front, alignment with global developments in banking supervision is a focus area for both regulators and banks. The new international capital norms require a high level of sophistication in risk management, information systems, and technology which would pose a challenge for many participants in the Indian banking sector. The deep and often painful process of restructuring in the Indian economy and Indian industry has resulted in asset quality issues for the banking sector; while significant progress is being made in this area, a great deal of work towards resolution of these legacy issues still needs to be done. The Indian banking sector is thus at an exciting point in its evolution. The opportunities are immense – to enter new businesses and new markets, to develop new ways of working, to improve efficiency, and to deliver higher levels of customer service. The process of change and restructuring that must be undergone to capitalize on these opportunities poses a challenge for many banks. The Indian banking sector is faced with multiple and concurrent challenges such as increased competition, rising customer expectations, and diminishing customer loyalty. The banking industry is also changing at a phenomenal speed. While at the one end, we have millions of savers and

investors who still do not use a bank, another segment continues to bank with a physical branch and at the other end of the spectrum, the customers are becoming familiar with ATMs, e-banking, and cashless economy. This shows the immense potential for market expansion. The exponential growth for the industry comes from being able to handle as wide a range of this spectrum as possible. In this complex and fast changing environment, the only sustainable competitive advantage is to give the customer an optimum blend of technology and traditional service. As banks develop their strategies for giving customers access to their accounts through various advanced services like e banking, mobile banking and net banking, they should also regard this emerging platform as a potential catalyst for generating operational efficiencies and as a vehicle for new revenue sources. Banking industry's opportunities includes.

- A growing economy
- Banking deregulation
- Increased client borrowing
- An increase in the number of banks
- An increase in the money supply
- Low government-set credit rates and

Larger customer checking account balances. Developing countries like India, has a huge number of people who don't have access to banking services due to scattered and fragmented locations. But if we talk about those people who are availing banking services, their expectations are raising as the level of services are increasing due to the emergence of Information Technology and immense competition between the services and products provided by different banks. Since, foreign banks are playing in Indian market, the number of services of offered has increased and banks have laid emphasis on meeting the customer expectations.

Findings: Indian banking industry, today is in the midst of an IT revolution. A combination of regulatory and competitive reasons has led to increasing importance of total banking automation in the Indian Banking Industry. The bank which used the right technology to supply timely information will see productivity increase and thereby gain a competitive edge. To compete in an economy which is opening up, it is imperative for the Indian Banks to observe the latest technology and modify it to suit their environment. Information technology offers a chance for banks to build new systems that address a wide range of customer needs including many that may not be imaginable today.

Electronic Payment Services - E Cheques: Nowadays we are hearing about e-governance, e-mail, e-commerce, e-tail etc. In the same manner, a new technology is being developed in US for introduction of e-cheque, which will eventually replace the conventional paper cheque. India, as harbinger to the introduction of e-cheque, the Negotiable Instruments Act has already been amended to include; Truncated cheque and E-cheque instruments.

Real Time Gross Settlement (RTGS): Real Time Gross Settlement system, introduced in India since March 2004, is a Interlink Research Analysis system through which electronics

instructions can be given by banks to transfer funds from their account to the account of another bank. The (RTGS) Real Time Gross Settlement system is maintained and operated by the RBI and provides a means of efficient and faster funds transfer among banks facilitating their financial operations. As the name suggests, funds transfer between banks takes place on a 'Real Time' basis. Therefore, money can reach the beneficiary instantaneously and the beneficiary's bank has the responsibility to credit the beneficiary's account within two hours.

Electronic Funds Transfer (EFT): Electronic Funds Transfer (EFT) is a system whereby anyone who wants to make payment to another person/company etc. can approach his bank and make cash payment or give instructions/authorization to transfer funds directly from his own account to the bank account of the receiver/beneficiary. Complete details such as the receiver's name, bank account number, account type (savings or current account), bank name, city, branch name etc. should be furnished to the bank at the time of requesting for such transfers so that the amount reaches the beneficiaries' account correctly and faster. RBI (Reserve Bank of India) is the service provider of Electronic Funds Transfer (EFT)

Automatic Teller Machine (ATM): Automatic Teller Machine is the most popular device in India, which enables the customers to withdraw their money 24 hours a day 7 days a week. It is a device that allows customer who has an Automatic Teller Machine (ATM) card to perform routine banking transactions without interacting with a human teller. In addition to cash withdrawal, Automatic Teller Machines (ATMs) can be used for payment of utility bills, funds transfer between accounts, deposit of cheques and cash into accounts, balance enquiry etc.

Point of Sale Terminal: Point of Sale Terminal is a computer terminal that is linked online to the computerized customer information files in a bank and magnetically encoded plastic transaction card that identifies the customer to the computer. During a transaction, the customer's account is debited and the retailer's account is credited by the computer for the amount of purchase.

Tele Banking: Tele Banking facilitates the customer to do entire non-cash related banking on telephone. Under this device Automatic Voice Recorder is used for simpler queries and transactions. For complicated queries and transactions, manned phone terminals are used.

Conclusion: Indian public sector banks that hold around 75 % of market share do have taken initiative in the field of IT. They are moving towards the centralized database and decentralize decisions making process. They possess enviable quality manpower. Awareness and appreciation of IT are very much there. What is needed is a 'big push' the way it was given in the post nationalization period for expansionary activities. IT and India have become synonymous. Whether India becomes a destination for outsourcing or it becomes a development centre is matter of debate. As far as banking industry in India is concerned it can be said that although the Indian banks may not be as technologically advanced as their counterparts in the developed world, they are following the majority of international trends

on the IT front. The strength of Indian banking lie in withering storms and rising up to the expectations from all the quarters catching up with all the global trends is a matter of time.

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