

## DBS Bank

A. Ansar<sup>1</sup>, Zh. Nurmukhayeva<sup>2</sup>, Ye. Otesh<sup>3</sup>, A. Yeleukhan<sup>4</sup>, K. Temirkhan<sup>5</sup>, I. Anika<sup>6</sup>  
<sup>1,2,3,4,5</sup>Students of International University of Information Technology  
<sup>6</sup>Master of science, Bangladesh University

**Abstract:** this article deals with implementation of new technologies in banking and financial sector. In this case, good examples of international experience taken into consideration.

**Key words:** DBS Bank, fintech, mobile payments, bitcoin, cryptocurrency

### Introduction

The Fintech (Financial Technology) is software or digital technologies used by businesses that provide automated and improved financial services. In the world, all big companies and banks use fintech to manage their finance by fast and innovative technologies. Now very known and mainstream fintech are Mobile Payments. Paying by mobile changed the way of managing finance. People of the 21st century who live with technology believe and expect from large companies and banks that financial services such as money transfers, lending, credit management, and investment will be easy, secure, and scalable, ideally without the help of a person or a Bank visit.

Banks established old products and services find themselves increasingly displaced and for both businesses and customers, banking fintech has largely become more convenient, efficient and easy of access. In contrast to traditional banks, now, fintech startups work quickly and flexibly when implementing new services, which is a big plus for banks.

Hallmark examples of FinTech in our daily life are Mobile Payment apps, Cryptocurrency and Blockchain, exactly Bitcoin and Gemini. In the future, new innovative financial technologies will transform the market by making all processes fast, accessible and convenient, using artificial intelligence and machine learning. In addition, for us, fintech products will become an integral part of our digital life.

Everything you need for a modern consumer

In today's world, people want to manage their finances from the comfort of home, often using financial technologies like mobile banking. However, from time to time, financial technologies will develop and be created more, while consumers will demand and expect more from banks, and improvement. The demand from consumers for banks will be an incentive to create something cooler. In the future, customers will be able to ask banks to analyze their spending patterns and give them individual recommendations for investing and saving. Also new technologies like augmented reality and voice activation that will include mobile banking.

Two of the most developed banks that can be reached

1. China Construction Bank Corporation is the leading large joint-stock commercial Bank in mainland China. The Bank provides comprehensive financial services, including personal banking, investment and capital management to hundreds of millions of individual and corporate clients, and corporate banking. The Bank strives to be the Bank with the best value creation opportunities, taking into account both short-term and long-term benefits, both business goals and social responsibility.

2. HSBC is a well-known organization in the banking sector. It is the largest banking and financial organization in the world. This is an international Bank that is spread around the world.

HSBC banking group has become the largest Bank in the UK. This achievement also means that the new group has a wider range of expertise, with many varieties under its banner. It is a more multicultural business, with higher market attendance in areas such as mortgages, insurance, Finance and investment.

HSBC uses a variety of advanced technologies to create an international network, including the rapidly growing potential of e-Commerce; HSBC provides a full commercial range of financial services corporate services, personal services, private banking and other activities.

Our bank Sumitomo Mitsui Financial Group is a large Japanese banking Corporation, established by Sumitomo Mitsui Banking Corporation in 2002. Corporation is the second largest Bank in Japan.

Sumitomo is also developing a smartphone app that allows users to perform various steps to send money, as well as make deposits and withdrawals, but our Bank also needs to work harder for better results.

Strength Rank 2019	AB 500 Rank 2019▲	Bank	Country	Assets/GDP	YoY Growth in Loans	YoY Growth in Deposits	Loan to Deposit Ratio	Capital Adequacy Ratio	YoY Growth in Operating Profit	Return on Asset	Cost to Income Ratio	Non-interest Income/Total Operating Income	Loan Loss Reserves / Gross NPLs	Gross Non-Performing Loan Ratio	Liquid Assets / Total Deposits and Borrowings	Aggregate Strength Score 2019
				Score (17.5%)	Score (2.5%)	Score (2.5%)	Score (10.0%)	Score (10.0%)	Score (5.0%)	Score (7.5%)	Score (7.5%)	Score (7.5%)	Score (12.5%)	Score (12.5%)	Score (5.0%)	
11	1	Industrial and Commercial Bank of China	China	4.5	2.5	3.5	3.5	4.0	1.0	3.5	5.0	2.5	5.0	3.5	4.0	3.84
8	2	China Construction Bank Corporation	China	4.5	2.0	2.0	3.0	4.5	1.0	3.5	5.0	2.5	5.0	4.0	4.0	3.88
14	3	Agricultural Bank of China	China	4.5	3.0	3.0	4.0	3.5	1.5	2.5	5.0	2.0	5.0	3.5	4.5	3.75
9	4	Bank of China	China	4.5	3.0	3.5	3.0	4.0	1.0	2.5	5.0	3.0	5.0	4.0	4.5	3.86
20	5	Mitsubishi UFJ Financial Group	Japan	5.0	0.0	1.0	5.0	4.5	0.0	1.0	1.5	5.0	3.5	4.5	5.0	3.65
379	6	JAPAN POST BANK	Japan	5.0	0.0	0.5	5.0	4.0	0.0	0.5	0.0	0.0	0.0	0.0	5.0	2.05
13	7	Sumitomo Mitsui Financial Group	Japan	5.0	2.0	2.0	5.0	5.0	0.5	1.0	2.5	4.5	3.0	4.5	5.0	3.79
44	8	Mizuho Financial Group	Japan	5.0	0.0	1.0	5.0	5.0	0.0	0.5	1.5	4.0	2.0	4.5	5.0	3.41
96	9	Bank of Communications	China	1.0	2.0	2.0	2.5	3.5	1.5	2.0	4.5	4.0	5.0	4.0	4.5	3.11
87	10	Postal Savings Bank of China	China	1.0	4.0	2.5	5.0	3.5	4.0	1.5	2.5	1.5	5.0	4.5	4.0	3.15
3	11	HSBC	Hong Kong	5.0	2.0	0.5	4.0	5.0	2.0	4.0	4.5	4.5	4.0	4.5	5.0	4.25
44	12	China Merchants Bank	China	1.0	2.5	3.5	2.5	4.0	1.5	4.0	5.0	4.0	5.0	4.0	4.5	3.41
163	13	Industrial Bank	China	1.0	4.0	2.5	2.0	3.5	1.5	2.5	5.0	4.0	5.0	3.5	0.0	2.93
189	14	Shanghai Pudong Development Bank	China	1.0	3.0	2.5	0.0	3.5	0.5	2.5	5.0	3.5	5.0	3.5	4.0	2.86

Table 1

As you can see from the above statistics, our Bank is in the top 10 largest banks in Asia, but not in the top 10 worldwide. Our Bank has sufficient capital to invest in financial innovations. As we noted above, it is best to invest in financial technologies, because the most important thing for consumers now is the efficiency and innovation of banks. In order to reach or overtake banks, CCB and HSBC, we must use improved versions of advanced financial technologies in China and London that will make life easier for consumers.

We would like to mention the advanced financial technologies of CCB and HSBC for comparison:

- “CCB focused on implementing a FINTECH strategy, launching a new round of FINTECH strategy "TOP+", creating a CCB-FINTECH Corporation, integrating and creating seven key business groups. CCB uses big data, blockchain, and artificial intelligence to expand product innovation opportunities. The most important thing here is the use of Blockchain to save big data of customers and the Bank as a whole.”[2]

- China has also fully implemented the "three main strategies" of housing rental, inclusive Finance and FINTECH, focusing on the pain points of people's livelihoods, empowering society with the power of Finance, and implementing new business development in the process of stimulating economic and social development.

- “The Central Bank has accelerated the development of its new retail business to meet the needs of consumers to modernize their consumption. The Central Bank is expanding convenient and easy-to-use financial products, such as "quick loans", in line with consumption patterns. Personal mobile banking users exceeded 300 million; the number of users adding CCB account as their WeChat payment method reached 89 million, and the intelligent “small micro” answers questions from WeChat users more than 1 million times a day.”[2]

- “Customers are increasingly using digital channels to manage their finances – 87% of HSBC's retail transactions are now done via mobile devices or online, but many people still want and need personal advice for their most complex and sensitive financial decisions.”[3]

- Mobile banking services may also include new technologies such as augmented reality and voice activation. Imagine that you are looking for a new home: you point your phone at your dream home and speak directly into your banking app. Your Bank can tell you not only the amount of monthly mortgage payments, but also, based on publicly available information, detailed information about local services and taxes.

Based on this data, we can suggest to improve the top 3 financial innovations that can help our Bank reach great heights.

1. Firstly, we understand that banks have many data that is used every day in various ways, and to save this data, we will develop our blockchains. The financial market in recent years has been largely influenced by technological progress, which is associated with the introduction of online services and the use of blockchain chains in the economy. First, innovations are introduced in the banking sector, where almost all

operations are based on modern technologies. In order to prevent various frauds, the Bank should start using cryptographic anchors and blockchain protocols to combat counterfeit manufacturers. This is a tandem of technologies the authenticity of the object will be guaranteed, starting from the moment of its creation and ending with its transfer to the end user. The system is decentralized, and allows you to safely keep records and make quick transactions.

2. Secondly, as mentioned above, based on the experience of the London Bank, it was noted that many clients would still like to consult in person, and for this purpose, you can start using automated Robo-advisors that will help and serve clients on the most standard and non-standard issues. In other words, introduce artificial intelligence into our Bank.

3. Third, it is possible to improve mobile banking services, which will be more systematic, which may include new technologies such as augmented reality and voice activation. Complete systematization of mobile banks with the use of which you can calculate your future mortgage loan or provide other services from the comfort of your home.

#### Conclusion

In conclusion, we would like to say that in order to serve customers and manage risks, as well as to extend the new generation of basic systems to foreign institutions, we must pay more and more attention to information technology.

Our Bank should continue to explore market mechanisms for talent development and incentives, working with professional institutions to create an open platform, as well as to create an ecosystem of advanced technologies, financial scenarios and innovative business models, in order to increase the ability to absorb, transform and apply modern technologies and, in the same way, make life easier for our consumers.

#### References:

1. <http://www.theasianbanker.com/ab500/2018-2019/strongest-banks-asia-pacific>
2. [http://en.ccb.com/en/announcement/v3/20190329\\_1553821030.html](http://en.ccb.com/en/announcement/v3/20190329_1553821030.html)
3. <https://www.hsbc.com/insight/topics/banking-in-the-future>

#### Развитие финансовых технологий

М. Айкжанов<sup>1</sup>, Д. Голубева<sup>2</sup>, Ж. Кужагалиева<sup>3</sup>, М. Кутемген<sup>4</sup>, С. Сапаргали<sup>5</sup>  
<sup>1,2,3,4,5</sup>Студенты 3 курса

<sup>1,2,3,4,5</sup>Г.М. Есенова, к.э.н., профессор, зав. кафедры «Финансы»,  
<sup>1,2,3,4,5</sup>ЕНУ им. Л.Н. Гумилева

Аннотация: в данной статье рассмотрено развитие банковского сектора на основе анализа различных регионов мира. Также, на базе статьи можно убедиться, что в дальнейшем банки будут продолжать тенденцию внедрения финансовых технологий.

Ключевые слова: финтех, Bank of America, Lloyds Banking Group, развитие банка.

Высокотехнологичные компании являются одним из основных драйверов коммерциализации и повсеместного распространения результатов научной деятельности. Современный этап развития экономики характеризуется интеграцией множеств секторов друг с другом. На стыке финансового и высокотехнологично сектора образовался новый, финансово-технологический сегмент экономики.

Активно развивающийся финансово-технологический сектор представляет собой совокупность компаний, которые используют современные наукоемкие технологии для целей совершенствования систем перераспределения финансовых ресурсов. На данный момент финансово-технологический сектор включает в себя ряд активно развивающихся стартапов, компаний финансового сектора и высокотехнологичных компаний, осуществляющих разработки в сфере финансов.

Вследствие обострения конкуренции и активного применения высоких технологий в финансовой сфере бизнес-процессы в коммерческих банках изменяются. На данный момент финансово-технологические компании и банки пытаются адаптировать к банковской деятельности различные научно-технические разработки. Активное использование высокотехнологичных разработок в банковской сфере является одним из основных драйверов изменений и новых тенденций

Часть 1. Развитие финансовых технологий в различных регионах мира

Наша команда провела исследования в сфере финансовых технологий в таких банках как Bank of Singapore расположенный в Сингапуре, американский Bank of America и Lloyds Banking Group расположенный в столице Великобритании.