

The Existence of Regulatory Sandbox in an Effort to Encourage the Growth of Financial Technology in Indonesia

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ABSTRACT

Bank Indonesia created an appropriate regulatory regime to drive the pace of innovation carried out by Financial Technology Providers while still applying the principles of consumer protection, risk management and prudence. One of the efforts made by Bank Indonesia was by issuing provisions concerning a regulatory sandbox for Financial Technology Providers along with their products, services, technology and / or business models in a Board of Governors Member Regulation No 19/14/PADG/2017 on the Limited Technology Testing Room (Regulatory Sandbox) Financial Technology. Meanwhile, the Financial Services Authority also issued regulation regarding ⁴Regulatory Sandbox for Financial Technology Organizers in Financial Services Authority Regulation No. 13 / POJK.02/2018 on the ⁸Digital Financial Innovations in the Financial Services Sector. ⁸The main point of view to be analyzed is the existence of regulatory sandbox approach held ⁸by Bank Indonesia and the Financial Services Authority as an effort to encourage the growth of Financial Technology in Indonesia.

Keyword: Regulatory Sandbox, Financial Technology, Bank Indonesia, Financial Services Authority

I. INTRODUCTION

The era of economic digitalization triggered the use of internet technology, smart phones, and big data to help consumers more efficiently, both in terms of time, access, and cost. In this context, the flow of digitalization of the economy including Financial Technology (FinTech) has great potential to encourage more efficient allocation of economic resources and in turn encourage increased productivity and provide greater benefits for the community.

That developments and innovations in the financial technology industry need to be appropriately and adequately mitigated to provide benefits to society and the economy. In this regard, Bank Indonesia created an appropriate regulatory regime to be able to drive the pace of innovation carried out by Financial Technology Providers while still applying the principles of consumer protection, risk management and prudence. One of the efforts made by Bank Indonesia was by issuing provisions concerning a regulatory sandbox for Financial Technology Providers along with their products, services, technology and / or business models in a Board of Governors Member Regulation No 19/14/PADG/2017 on the Limited Technology Testing Room (Regulatory Sandbox) Financial Technology (PADG 19). As well as supporting the implementation of that Financial Technology, Bank Indonesia issues Bank Indonesia Regulation No 19/12/PBI/2017 on the Implementation of Financial Technology (PBI 19). In addition to Bank Indonesia, the Financial Services Authority also issued regulation regarding the Regulatory Sandbox for Financial Technology Organizers in Financial Services Authority Regulation No. 13 / POJK.02/2018 on the Digital Financial Innovations in the Financial Services Sector (POJK 13).

Based on Article 1 paragraph (4) of PADG 19, the term of Regulatory Sandbox is a safe limited trial space for testing Providers of Financial Technology and its products, services, technology and / or business models. Meanwhile, based on Article 1 paragraph (4) of POJK 13, the understanding of the Regulatory Sandbox is a testing mechanism carried out by the Financial Services Authority to assess the reliability of business processes, business models, financial instruments, and Organizer governance. Meanwhile, based on Article 1 paragraph (4) of POJK 13, the definition of the Regulatory Sandbox is a testing mechanism carried out by the Financial

Services Authority to assess the reliability of business processes, business models, financial instruments, and organizer governance.

The regulatory sandbox concept as a selection process for a fintech concept starts from the United Kingdom and is followed by other countries that have advances in fintech such as the United States (US), Australia, China and Singapore. The regulatory sandbox principle throughout the world has the same goal, namely the learning and testing process. The next goal is to provide time for innovators to make improvements and improve governance and business risk. Ivo Jenik and Kate Launer in their journal, published by The Consultative Group to Assist the Poor (CGAP) in October 2017, said that the framework for trials was first compiled by the US Bureau of Finance and Consumer Protection (Consumer Financial Protection Bureau (CFPB) below the name Project Catalyst. The UK Financial Settings Authority (FCA) first coined the term 2015 regulatory sandbox. Since then, the regulatory sandbox concept has spread to more than 20 countries in the world.¹

The UK's Financial Conduct Authority (FCA) launched a regulation regarding regulatory sandbox for the fintech platform globally in 2016, following the 2015 national regulatory sandbox success. The rule allows the development of innovative fintech without a strict regulatory process for the trial phase. The FCA said, the potential benefits of regulatory sandbox include efficient time and costs for testing innovative ideas on the market, providing innovators with broader access, allowing more potentially well-known market-tested products, enabling collaboration between FCA and innovators to ensuring the right consumer market, as well as protection of new products and services. The regulatory sandbox application was opened in June 2016 and from 146 innovators who applied, there were 50 innovators or business ideas received and 41 other applicants in the process of being tested. Launching Forbes, the state of Arizona became the first state in the US to adopt a regulatory sandbox to develop business industries including fintech, blockchain and cryptocurrency. Fintech companies that are included in the regulatory sandbox can test products for up to two years and serve 10,000 customers before finally applying for an official permit. Doug Ducey, Governor of Arizona, revealed that with the signing

of H.B 2434 becoming a law at AZTech 2018, Arizona has a regulatory sandbox for the development of the fintech industry.²

As explained in the PADG 19, in order to encourage the development of innovation in activities that use financial technology, a limited trial space for financial technology providers and products should be provided, services, technology and / or business models, that apply the principles of consumer protection and risk management and prudence. The trial process in the Regulatory Sandbox applies the principle of criteria-based process, transparency, proportionality, fairness, equality and forward looking. On the other hand, through POJK 13, the Financial Services Authority (OJK) provides the main reason for establishing the Regulatory Sandbox is as a means to bring together industry players with regulators. Through this forum, authorities will identify and observe the dynamics and risks of digital market financial services. With an understanding of the new business model, authorities can determine mitigation efforts to maintain financial system stability.

A total of 67 Financial Technology companies that have been recorded in the Financial Services Authority will enter the regulatory sandbox test laboratory in February 2019 to get a recommendation for eligibility to get permission.³

Bank Indonesia (BI) and the Financial Services Authority (FSA) apply regulatory sandbox provisions or pilot programs for startup companies in the field of technology-based financial services (financial technology). This program is a trial place for fintech companies before operating to serve the community. This regulatory sandbox in FSA has a different function than the regulatory sandbox at Bank Indonesia. The FSA Regulatory Sandbox focuses on financial services, both banking and non-bank products. While the regulatory sandbox at BI handles products related to payment system services. If the digital financial industry carries out activities under the supervision of the FSA, FSA will be handed over. Whereas for those related to the payment system, it is BI's regulatory sandbox.⁴

² Dea Chadiza Syafina, 2018, "*Mengenal Regulatory Sandbox, Rahim dari Kelahiran Para Fintech*", <https://tirto.id/mengenal-regulatory-sandbox-rahim-dari-kelahiran-para-fintech-cJpW>

³ <https://economy.okezone.com/read/2019/01/29/320/2010778/67-perusahaan-fintech-uji-kelayakan-untuk-dapat-izin-ojk>

⁴ *Ibid*

In terms of scope of supervision, that two institutions have difference authority. BI has the authority to test fintech companies with e-payment systems, such as Go-Pay. Whereas, FSA has the right to evaluate fintech of financial services such as crowdfunding (financing), peer to peer lending (technology-based money lending and borrowing services). To participate in the regulatory sandbox program, fintech companies must register with the regulator first. Furthermore, the company follows several stages of assessment. For example, assessing internal conditions such as management profiles and the reputation of the management, the novelty and benefits of products, funding and legal consultants. In addition, regulators assess the company's external side, such as business competition and consumer protection, information, education, and consumer dispute resolution.

Through this regulatory sandbox process, regulators can find out the conditions of management and products offered by fintech companies. After conducting various stages of assessment, the regulator is authorized to give a statement of the feasibility of the company.

Based on BI's regulation on Regulatory Sandbox, it is stated that BI can set a certain period of time for fintech companies to conduct a trial in a regulatory sandbox with a maximum limit of 12 months. After the expiration period, BI determines the status of the results of the fintech company trial with three criteria namely successful, unsuccessful, or other status determined by BI.

For those who succeed in the trial, then the fintech company can offer its products to the community by applying for permission to BI first. The successful statement from BI influences the level of consumer confidence in the fintech company. Whereas, companies that do not succeed in passing the regulatory sandbox, are prohibited from marketing the products, services, technology and or business models that are tested.

The duration of the regulatory sandbox trial is set at no later than six months from the date of stipulation of the product, service, technology and business model trial scenario. The period can be extended once for a maximum of six months. So, the total time that the fintech company can use is testing the product to be a year.

During the implementation of the trial, fintech companies must ensure adequate implementation of the principles of consumer protection, risk management and

prudence. The company is also required to submit a trial implementation report, both regularly and incidentally in accordance with BI's request.

BI data in early April, only 1 out of 15 fintech companies registered to follow the regulatory sandbox process, namely PT. Toko Pandai Nusantara (Toko Pandai). This company is considered to have fulfilled eight BI criteria to follow the trial process as stipulated in Article 3 of [Bank Indonesia Regulation No 19/14/PADG/2017](#).

The concept of a limited trial room (Regulatory Sandbox) for financial technology has the potential to create business risks. One such risk was when the central bank authorities stated that Fintech organizers "did not succeed" in the implementation of limited trials.

Fintech providers of the payment system when set in the Regulatory Sandbox are still allowed to operate, but the company is under certain supervision by the central bank. In other words, the central bank still allows fintech to operate, but the activities carried out are limited as determined by BI.

Bank Indonesia through PADG 19 regulates that the central bank can set up a fintech operator along with its products, services, technology, and business models to be tested in the Regulatory Sandbox as long as it meets criteria according to Article 3 paragraph (2) the rules are innovative, have an impact on products, services, technology and financial business models that already exist, provide benefits to the community, can be used widely, and other criteria set by the central bank. After the trial period turned out that the central bank determined the results of the trial were unsuccessful, fintech organizers were prohibited from marketing their products and / or services and using technology and business models. Meanwhile, Article 8 paragraph (2) of POJK 13 determine the eligibility of criteria that can be tested in the Sanul Regulatory namely registered at the Financial Services Authority or based on an application letter submitted by the relevant supervisory work unit at the Financial Services Authority, is a new business model, has a business scale with broad market coverage, is registered in the Association of the Provider and other criteria set by the Financial Services Authority.

Based on the background, the main point of view to be analyzed is the existence of regulatory sandbox approach held by Bank Indonesia and the Financial Services

Authority as an effort to encourage the growth of financial technology in Indonesia. As for the problems in this case are as follows:

1. How is the regulatory sandbox approach held by Bank Indonesia and the Financial Services Authority?
2. How to encourage the growth of financial technology in Indonesia through the regulatory sandbox approach?

II. RESEARCH METHODS

In this research used normative or doctrinal juridical methods, which are intended as legal research conducted by examining library materials or secondary data consisting of primary legal materials, secondary legal materials, and tertiary legal materials. The approach used in legal research is the statute approach, the comparative approach, and the analytical approach. The data analysis technique in this research uses content analysis, which is a series of methods for analyzing the contents of all forms of communication by reducing the entire contents of communication into a series of categories that represent the things to be studied.

III. DISCUSSION

1. The Regulatory Sandbox Approach by Bank Indonesia and the Financial Services Authority

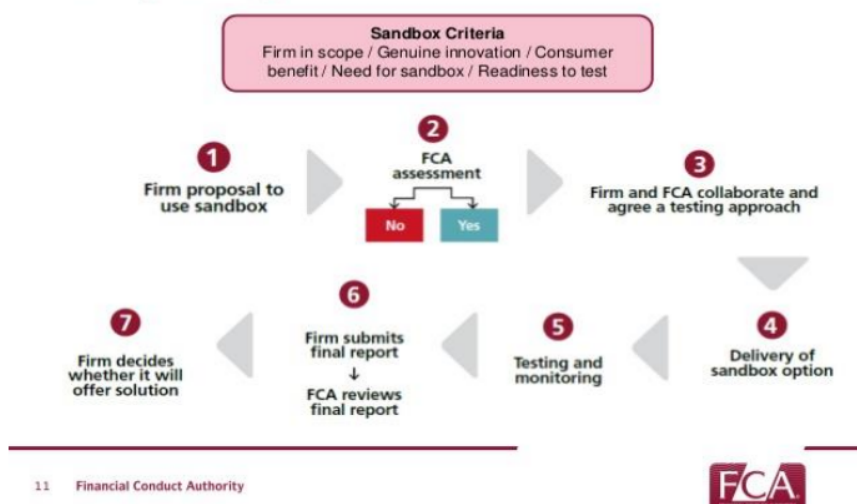
This sandbox model setting was pioneered by the UK as a regulatory sandbox or a trial program for FinTech start-ups. The purpose of the sandbox is for FinTech players to test their systems and businesses with a span of 6 months to 12 months before the business is fully operational. In this trial period, the FinTech company will be accompanied by the government in a legal and operational administration system, so that there are no rules violated by the FinTech company. The main key to the success of the sandbox system lies in government assistance. Therefore, the sandbox is just a program name that aims to develop FinTech companies. Through legal assistance and technical assistance, FinTech will be tested before operating in the community. After mentoring then the government sets operational permits and service standards. The main purpose of the sandbox program is to get public trust that FinTech is born will be safe in operation. With the public trust, of course there

will be more users. This shows that UK financial legal instruments are designed in such a way that is market-oriented.⁵

As explained the flow of assistance carried out by the Financial Conduct Authority (FCAS) as an institution committed to promoting effective competition in financial services regulated in the interests of consumers. The definition of the regulatory sandbox according to the FCA is:

A regulatory sandbox is a 'safe space' in which businesses can test innovative products, services, business models and delivery mechanisms without immediately incurring the normal regulatory consequences of engaging in the activity in question. The exact firm journey and the FCA's involvement will depend on the specific options used, the regulatory status of the firm, the solution being tested and the extent of consumer involvement. The below chart 1 is an outline of the 'firm journey' for options that can be implemented by the FCA.⁶

Firm journey



The concept and implementation of the regulatory sandbox has evolved by looking at different models, many of which follow FCA blue print as a reference, they have the following designs;

⁵ Bambang Pratama, 2017 Mengenal Regulatory Sandbox Pada Fintech, Rubric of Faculty Members, Binus University Faculty Of Humanities, <https://business-law.binus.ac.id/2016/09/29/mengenal-regulatory-sandbox-pada-fintech/>

⁶ <https://www.fca.org.uk/publication/research/regulatory-sandbox.pdf>, accessed in Bandar Lampung on 27 - 07-2018

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Despite the diversity, many regulatory sandboxes follow the FCA's blueprint, and therefore, they have the following design components:

Objectives of the sandbox⁷.

- 1) *Eligibility to apply to the sandbox.*
- 2) *Criteria (specified in the application) regarding risks, safeguards, and other restrictions.*
- 3) *Timing for applicants and sandbox entities tests.*
- 4) *Costs to the regulator and the sandbox entities.*
- 5) *Regulator's actions following sandbox test(s)*

Some anticipatory legal steps to deal with the Fintech phenomenon are by making a regulatory sandbox. In general, the regulatory sandbox was used as a testing lab for Fintech actors before the business was released to the market. Generally regulatory sandboxes are held by the Central Bank (Bank Indonesia), but there are some countries whose Central Banks work with research institutions and / or universities.

The government through the Financial Services Authority (FSA) ¹² has issued FSA Regulation (POJK) No. 13 / POJK.02 / 2018 on the Digital Financial Innovation in the Financial Services Sector (POJK 13). That based on Article 1 POJK 13, the Regulatory Sandbox is a mechanism of testing carried out by the Financial Services Authority ⁴ to assess the reliability of business processes, business models, financial instruments and governance of the Operator. Whereas according to the Board of Governors' Member Regulation No 19/14 / PADG / 2017 concerning Limited Testing Room (Regulatory Sandbox) of Financial Technology, the definition of Regulatory Sandbox is a safe limited testing room to test Financial Technology Organizers along with products, services, technology, and / or business model.

Through POJK 13, that every organizer of Digital Financial Innovation (IKD), both startup companies and Financial Service Institutions (LJK), will go through three stages of the process before submitting a licensing application. First, the recording phase to OJK for startup / non-LJK companies. Application for recording automatically includes a request for testing the Regulatory Sandbox. As for LJK, the Sandbox application is submitted to supervisors in each field (Banking, Capital Market, IKNB). Second, the

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⁷ Ivo Jenik and Kate Lauer, *Regulatory Sandboxes and financial Inclusion*, Working Paper. Washington, D.C.: CGAP. 2017

Regulatory Sandbox Process has a ⁶ maximum period of one year and can be extended for 6 months if needed. Third, after passing through the Regulatory Sandbox process with a "recommended" status, it can be continued with registration / licensing to the FSA. In the Regulatory Sandbox process, registered fintech companies are required to submit periodic performance reports quarterly to the FSA. That based on Article 9 POJK 13 the Regulatory Sandbox is implemented in a ⁶ maximum period of 1 (one) year and can be extended for 6 (six) months if necessary. A little faster, the trial period in the Regulatory Sandbox conducted by Bank Indonesia is for 6 months and can be extended one time at the latest 6 months. In PADG 19, the Operator is required to make a presentation to BI regarding the business model and risk management along with complete documents. Both PADG 19 and POJK 13 regulate consumer protection requirements. During the trial period in the Sandbox Regulatory, fintech operators were obliged to ensure the application of the principles of consumer protection and adequate risk management and prudence (Article 13 PADG 19), including in protecting data, information, and consumer funds.

Whereas in POJK 13 Organizers are required to maintain ¹⁴ confidentiality, integrity and availability of personal data, transaction data, and financial data they manage since the data is obtained until the data is destroyed. The media and methods used in obtaining data and information must also be guaranteed confidentiality, security, and integrity. As for if you want to use user data and information, the organizer must obtain approval from the user. The organizer must also convey the limits on the use of data and information to the user, including if there is a change in the purpose of using this matter.

Next the authors describe the analysis of differences ¹⁷ in the implementation of the regulatory sandbox between the Financial Services Authority Institution through FSA Regulation (POJK) No. 13 / POJK.02 / 2018 and Bank Indonesia through the Board of Governors' Member Regulation No 19/14 / PADG / 2017, as follows:

1. The time period required to carry out the regulatory sandbox, OJK Regulation (POJK) No. 13 / POJK.02 / 2018 Article 9, Regulatory

Sandbox is implemented for a maximum period of 1 (one) year and can be extended for 6 (six) months if necessary. Regulation of the Board of Governors No 19/14 / PADG / 2017, Article 11, The period of trial in the Regulatory Sandbox is set at no later than 6 (six) months from the date Bank Indonesia determines the product, service, technology and / or model trial scenario. business. Analysis of the Implementation of the Regulatory Sandbox by BI is faster.

2. Basic Principles of Regulatory Sandbox, OJK Regulation (POJK) No. 13 / POJK.02 / 2018, Article 7, Article 4,
 - a. innovative and forward oriented;
 - b. use information and communication technology as the main means of providing services to consumers in the financial services sector;
 - c. support financial inclusion and literacy;
 - d. useful and can be used widely;
 - e. can be integrated into existing financial services;
 - f. using a collaborative approach; and
 - g. pay attention to aspects of consumer protection and data protection.

Regulation of the Board of Governors No 19/14 / PADG / 2017, Article 8, The trial process in the Regulatory Sandbox applies the principle:

- a. *Criteria-based process*; The determination of the participants of the Sandbox Regulatory takes into account the fulfillment of criteria set by Bank Indonesia.
- b. *Transparency*; Announcement of the results of the Sandbox Regulatory periodically.
- c. *Proportionality*; Consider the type, scale, and risk of the tested products, services, technology and / or business models.
- d. *Fairness*; Financial Technology Providers have the same opportunity as long as they meet the criteria of Bank Indonesia.

- e. Equality (*equal treatment*); Provisions regarding the Regulatory Sandbox apply to all Financial Technology Administrators.
- f. *forward looking*; Consider the future potential and benefits to society and the economy.

The basic principles of the Regulatory Sandbox used by BI and OJK are almost similar, namely in the form of innovative, transparent, proportional, benefits, legal protection and legal justice principles.

3. Fintech tested, OJK Regulation (POJK) No. 13 / POJK.02 / 2018, Article 5, the Operator consists of:

- a. Financial Services Institution; and / or
- b. Other parties that carry out activities in the financial services sector.

Regulation of the Board of Governors No 19/14 / PADG / 2017, Article 3 Paragraph (2) letter b, Financial Technology held contains elements that can be categorized into the payment system. There are differences in the fintech sector being tested in each institution, so there is no overlapping in the implementation of the Regulatory sandbox.

4. Trial Results in the Regulatory Sandbox, OJK Regulation (POJK) No. 13 / POJK.02 / 2018, Article 11 Paragraph (1), the Regulatory Sandbox

Results against the Operator are stated by status:

- a. recommended;
- b. improvement; or
- c. not recommended.

Regulation of the Board of Governors No 19/14 / PADG / 2017, Article 16 Paragraph (3), Bank Indonesia stipulates the status of the trial results in the Regulatory Sandbox, namely:

- a. succeeded;
- b. not successful; or
- c. other status stipulated by Bank Indonesia.

5. Follow-up on the results of the trial test in the Regulatory Sandbox, FSA Regulation (POJK) No. 13 / POJK.02 / 2018, Article 11 Paragraph (2);

In the event that the Operator is recommended as referred to in paragraph (1) letter a, the Financial Services Authority will provide recommendations for registration in accordance with the business activities of the Operator.

Paragraph (3) In the event that the results of the trial have a status of improvement, the Financial Services Authority may provide an extension of the period of no more than 6 (six) months from the date of stipulation of status.

Paragraph (4) In the event that the results of a status trial are not recommended, the Operator cannot re-submit the same IKD.

Paragraph (5) An Operator that is not recommended as referred to in paragraph (4) is excluded from the registration as an Operator.

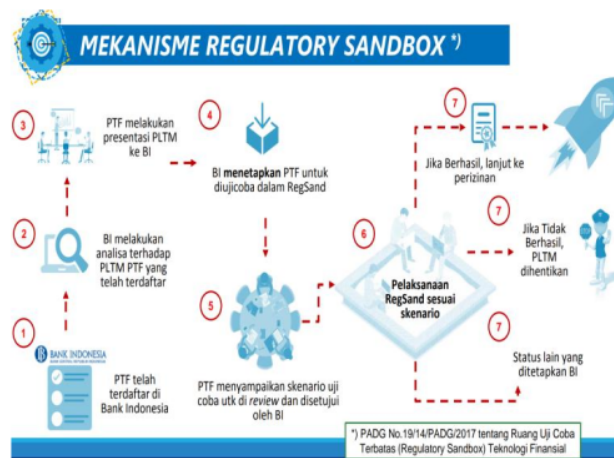
Regulation of the Board of Governors No 19/14 / PADG / 2017, Article 17 Paragraph (2) In the event that the trial is declared successful, the Financial Technology Operator is prohibited from marketing products, services, technology, and / or business models that are tested before applying for a permit and / or approval in accordance with Bank Indonesia regulations governing the processing of payment transaction.

Paragraph (5) In the event that trials are declared unsuccessful in products, services, technology, and / or business models including Financial Technology in the payment system category, Financial Technology Providers are prohibited from marketing products and / or services and using the tested technology and / or business models.

Paragraph (6) In the event that trials are declared unsuccessful in products, services, technology, and / or business models including Financial Technology in the payment system category, Financial Technology Providers are prohibited from marketing products and / or services and using the tested technology and / or business models.

Based on the explanation above, the differences in regulations regarding the Regulatory Sandbox between OJK and BI could cause one of the obstacles to Fintech's growth in Indonesia. There should be synchronization with the provisions of the Regulatory Sandbox in Indonesia.

The mechanism for organizing the regulatory sandbox by Bank Indonesia is as follows;



The existence of a conducive legal system design for business actors is not in the form of new laws, but in the form of policies such as: directive or guidance, so that structurally it does not disturb the existing legal order. Regarding fintech arrangements, there are two approaches offered by Julia Black, namely: principle-based and ruled-based. The Principle-based is largely chosen because the nature of the rules is very flexible, but unfortunately it is considered lacking in terms of legal certainty. Therefore, an alternative institution for resolving disputes over the financial ombudsman was established as a guardian of financial legal certainty. This shows that fast, cheap and efficient law enforcement instruments are legal requirements for business actors.

The fintech phenomenon teaches that the law must be able to follow the needs of the community, especially market participants and keep up with the

developments of the times. Strengthening legal instruments also needs to be balanced and strengthened by legal institutions, so that the level of public trust in the rule of law is maintained. Because the business world requires high public trust so that the industry can grow and develop. With the completeness of legal instruments, the government can maintain a balance between national interests and the interests of business actors.⁸

The regulatory sandbox approach by Bank Indonesia and the Financial Services Authority is an effort to encourage the development of innovation in activities that use financial technology. As well as in order to face the development of Financial Technology, Bank Indonesia is committed to encouraging innovation while mitigating the risks that arise. By creating a safe environment for innovation trials.

2. The Efforts to Encourage the Growth of Financial Technology in Indonesia Through the Regulatory Sandbox Approach

Unlimited technological developments in today's digital era, more complete with the presence of fintech. The term fintech is a financial service using a technology base which facilitate transactions that can do anywhere and anytime.

Financial technology (FinTech) is morphing into a larger field of the Internet of Thing (IO) and will be transformed exponentially in the coming decade by quantum computing. New asset classes and technologies are being created that will alter current business practices⁹

Financial technology (fintech) is the application of information technology in the field of financial services. According to the National Digital Research Center, fintech is an innovation in financial services. Innovation in this case is a touch of modern technology that can bring financial transaction processes easier and more practical. It first appeared in 2004 which is a financial model

⁸ Pratama, B. 2017. *Perspektif Hukum Siber dalam Menangkap Fenomena Disruptive Innovation*. Seminar Nasional Disruptive Innovation: Kajian Ekonomi dan Hukum. Yogyakarta.

⁹ Carmen Leong, Barney Tan, Xiao Xiao, Felix Ter Chian Tan, Yuan Sun. 2017. *Nurturing a Fintech ecosystem: The case of youth microloan startup in China*. *Internasional Journal of Information Management (ELSEVIER)* 37 (2017) 92-97. 0268-4012. <http://creativecommons.org/licenses/by-nc-nd/4.0/> accessed on 20-06-2019.

from Zopa in the UK as a financial institution that operates as a money lending service and subsequently a financial model that was introduced by Nakamoto in 2008. Fintech can be categorized into four types: Deposits, Lending, and Capital Raising; Market Provisioning; Payments, Clearing, and Settlement; and Investment and Risk Management¹⁰.

Fintech comes from the term Fintech derived from the term financial technology.. According to The National Digital Research Center (NDRC), in Dublin, Ireland, defines fintech as "innovation financial services" or "innovation in financial services of fintech" which is an innovation in the financial sector that gets a touch of modern technology. Financial transactions through fintech include payment, investment, money lending, transfers, financial plans and financial product comparison.¹¹

That based on Article 1 of Bank Indonesia Regulation No 19/12 / PBI / 2017 on the Implementation of Financial Technology as meant by financial technology is the use of technology in the financial system that produces new products, services, technology and / or business models and can have an impact on monetary stability, financial system stability, and / or efficiency, smoothness, security and reliability of the payment system. The development of financial technology on the one hand has proven to bring benefits to consumers, business people, and the national economy, but on the other hand has potential risks which if not properly mitigated can disrupt the financial system.

Based on Bank Indonesia Regulation No 19/12 / PBI / 2017 on the Implementation of Financial Technology, mentioning that the financial technology ecosystem needs to be continuously monitored and developed to support the creation of monetary stability, financial system stability, and payment systems that are efficient, smooth, safe, and reliable for support sustainable and inclusive national economic growth.

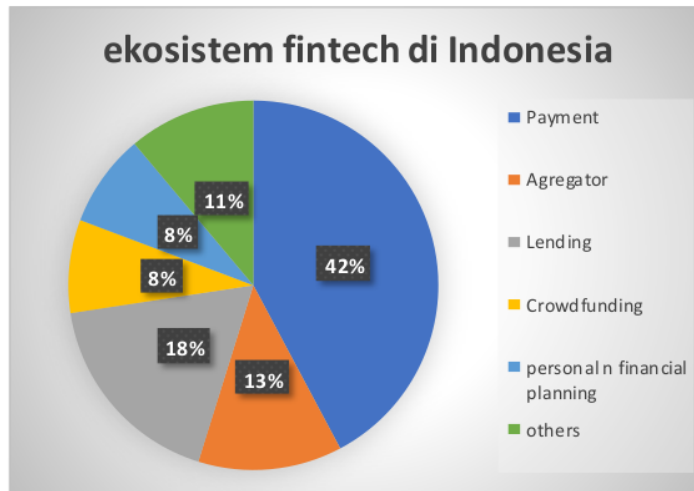
¹⁰ Kennedy, P. S. J. (2017). *Literature Review : Tantangan terhadap Ancaman Disruptif dari Financial Technology dan Peran Pemerintah dalam Menyikapinya*, (2), Page 175

¹¹ Ernama Santi, *pengawasan otoritas jasa keuangan terhadap financial technology (Peraturan Otoritas Jasa Keuangan nomor 77/pojk.01/2016*, diponegoro law journal, Volume 6, No 3, Page 217

The Financial Technology in Indonesia consists of several product classifications. Among the offered are products that offer lending and crowdfunding services. Through applications that provide this service, people who need funds can simply create an account on the application provider of lending and crowdfunding services and upload information regarding the amount of funds needed, the purpose of using the funds, and other relevant information. On the other hand, parties who have surplus funds can only look at the "catalog" of the applicant and choose one or several debtors. In this mechanism, generally the funding needs that are met are only short-term funding needs with varying interest rates. Some startups that provide this product include *Investree*, *UangTeman*, and *Modalku*. Other products that are also being offered by FinTech startups are payment and remittance services. In general, this business model is based on cashless transactions. This electronic money can be stored as data in a card, QR Code, or mobile phone devices. So that customers can make transactions anytime, anywhere, without the need to bring cash. *Dimo*, *Kartuku*, *Dompetku* and *Doku* are a No of startups from Indonesia who are engaged in this field. In addition to providing payment services, many financial technology-based startups also provide investment management services. Not only serving investment products, these startups also provide information related to the capital market and various investment instruments, such as stocks and mutual funds. *Stockbit* and *Bareksa* are two pilot companies that provide these services. Furthermore, there are also startup companies that provide education and personal financial management services. This startup offers a variety of financial product information ranging from credit, savings, insurance and investment. Not only that, some startups also make it easy to make simple financial records. Some startup companies that provide these services include *Cekaja.com*, *Duitpintar*, *AturDuit* and *Jurnal*. In addition to the various startups above, there are also other startups that are engaged in more specific financial services. For example, *iGrow* and *TaniHub*, a startup that is engaged in agricultural finance; *Iwak*, startup that provides fisheries funding services; *Jojonomic*, which provides reimbursement

management services; and the Privy ID that provides digital identity and signature features for various electronic transaction approvals.¹²

As for the Indonesian fintech and FSA Association, the distribution of fintech profiles illustrated in 2016 is as follows:¹³



The development of fintech in Indonesia, which has been shown, requires handling, namely in the event that FinTech Indonesia players are still dominant in the payment business (43%), loans (17%), and the remainder in the form of aggregators, crowdfunding and others. The amount of potential that is owned makes FinTech need to be given space to grow. Adequate arrangements need to be made given the risks that might be caused.

The fintech industry is increasingly developing in various fields of financial services related to online transactions. The fintech industry is still relatively new in Indonesia, so financial literacy efforts are relevant to Fintech so that fintech's market share can optimally utilize online transaction facilities. As well as regulations that guarantee the payment system for fintech enthusiasts, and protect against the risk of cybercrime. Synergizing with the existing financial industry to provide more benefits to consumers. As well as efforts to encourage the growth of financial technology in Indonesia through the

¹² Fitri Safira, 2016, *Ekosistem FinTech di Indonesia*, <http://https://swa.co.id/swa/my-article/ekosistem-fintech-indonesia>, accessed on 21-06-2019

¹³ Hadad, M. D. (2017). *Financial Technology (Fintech) di Indonesia*. Kuliah Umum tentang Fintech, Indonesia Banking School.

regulatory sandbox approach, it can be done through appropriate policy setting to be able to drive the pace of innovation carried out by Financial Technology Providers while still applying the principles of consumer protection, risk management and prudence.

IV. CONCLUSION

The regulatory sandbox approach by Bank Indonesia and the ⁷ Financial Services Authority (OJK) is an effort to encourage the development of innovation in activities that use financial technology. There are differences in regulations regarding the Regulatory Sanbox between OJK and BI that cause one of the obstacles to Fintech's growth in Indonesia. There should be synchronization with the provisions of the Regulatory Sandbox in Indonesia..

Efforts to encourage the growth of financial technology in Indonesia through the regulatory sandbox approach, can be done through appropriate policy setting in order to be able to encourage the pace of innovation carried out by Financial Technology Providers while still applying the principles of consumer protection, risk management and prudence.

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