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# Accountability of Special Autonomy Fund in Papua Province: Analysis from Political Economy of Accounting (PEA) Perspective

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## ABSTRACT

This study purpose was to analyze and critically evaluate the implementation of regulation and distribution of Special Autonomy Fund (SAF) in Papua Province based on political economy of accounting (PEA) perspective. PEA in this study serves as theory foundation and methodology to explore the studied phenomenon. Study result found that SAF implementation still inadequate to create welfare for Papua people. Therefore, this study provides practical implications for central and local government as benchmarks in management and distribution/allocation of SAF based on regulation to accelerate master plan development for society welfare in Papua. It can provide theoretical implications to give more space for implementation of PEA theory. It is not limited only to cases where corporation is focused on privatization. This study limitation is sample limited to Papua Province. Therefore, this findings cannot be generalized other local. For autonomous regions, further study is recommended to fill this gap to strengthen the results of this study.

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# INTRODUCTION

Special Autonomy is a policy of central government to response Papuans insistence to create a separate state of Papua Freedom (disintegration) from Indonesia (Musa'ad, 2009). These demands is based on low confidence of Papua people on Indonesian government credibility to makes them welfare. Finally, central government in 2001 issued the law No. 21 year 2001 on special autonomy for Papua Province.

To support the implementation of special autonomy policy, central government allocated special autonomy funds (SAF) in addition to general allocation fund (GAF) and special allocation funds. This means that SAF is part of GAF and parallel to sharing fund (DBH) and special allocation funds into one unified package transfers from the center to regions. In other words, SAF is an "additional grant" received by Papua Province for special autonomy policy. Total ceiling SAF ceiling is 2% of total national GAF intended for two priority programs: education and health.

Intervention to that policy cannot be avoided because the interests of multinational corporation (MNC) on natural resources. Core problem is "power" which is owned by government (central and

local). Executive and legislature become creators and coalesce together with MNC. This means that central government has been taking account the presence of MNC towards local with potential of natural resources. In this context, Stanworth and Giddens (1974) said that one alternative view suggestion is society should be controlled by incumbent elites (well-defined elite). Phenomenon the role of power form well-defined elite has occurred in special autonomy policy. This indication is visible through the slow response of central government and local government in following up the mandate of Law No. 21 year 2001 in form of regulation with implications on achievements of special autonomy policy. In addition, the regulations follow up still leaves problems, mainly related to optimization of revenue sources in framework of autonomy and management as well as distribution/allocation SAF in more accountable manner. Inaction and lack of clarity on regulation in special autonomy policy was alleged as part of scenario labeled elitist in form of a special policy for Papua Province. This policy was seen as strategic because contain affirmation and alignments to Papua people to obscure the importance and existence of MNC dominance.

Based on above explanation, this study objective is to analyze critically the implementation of

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regulations and distribution of special autonomy fund (SAF) in Papua Province with perspective of political economy of accounting (PEA).

# Research Methodology Instruments and methods:

This study used qualitative research methods to understand the facts easily. The research data was obtained through informant that directly implements SAF in Papua Province. Data is collected by triangulation of interviews, observation and focus groups to makes depth research and becoming more focused and profound. It is use the standardized interview, non-standardized interview schedule, non-standardized and open interview.

# Critical Approach and Analysis Techniques:

Phenomenon of special autonomy policy is only observed in economic approach, but also from social and political context. Classical economic theory which later became neo-classical economic theory is basis of capitalism that ignores morality and ethical considerations. It became an important part of political economy theory. To prevent practice of alienation, domination or hegemony as well as the exploitation of a public policy, it should be carefully examined. One suitable approach is political economy of accounting (PEA).

PEA in special autonomy policy context can foothold to break down the various phenomena occurred. These include: 1) the political aspects; special autonomy policy set cannot be separated from the political setting. Therefore, PEA becomes basis to examine the role of power between the creator (executive and legislature in central and local) and conflicts of interest to determine special autonomy policy, including MNC intervention. 2) Economic Aspects; the implementation of special autonomy policy has implications for region to increase revenue receipts from the country and wealth of Papua Province. PEA becomes basis to evaluate the history of revenue and wealth earned by referring to regulation established. 3) Accounting aspects; as consequences of SAS acceptance, PEA becomes a portrait accounting practices basis distribution/allocation of SAF and mechanism governance from justice aspect, and 4) social aspects; the necessity to evaluate the impact of special autonomy policy implementation. PEA becomes a basis to analyze the achievements of implementation of special autonomy policy.

PEA framework of this study becomes theoretical framework with the functions like a "microscope" to view "diseases/germs" that cannot be seen with naked eye. PEA is also aimed to understand and evaluate the accounting role in context of economic, social and political, or examine how the accounting role in certain contexts, both organizational and wider environment (Cooper and Sherer, 1984). This is consistent with irianto (2006);

Adrianto and Irianto (2008), which states that assessment framework based on PEA basically strengthen as well as expand efforts to study and understanding the accounting context as recommended by Hopwood *et al.* (1994); Burchell *et al.* (1980); Tomkins and Groves (1983); Neimark and Tinker (1986); Loft (1986).

## RESULTS AND DISCUSSION

## Specificity Autonomy in Papua Province:

Special autonomy policy at Papua Province basically gives greater authority to provinces and Papua people to organize and take care of themselves in framework of Unitary Republic of Indonesia (NKRI). Greater authority also includes the authority to regulate the utilization of natural resources in Papua Province for greatest prosperity of people, empowering economic potential, social, and cultural.

Specificity of special autonomy policy is instructed to create main pillars at Papua Province governance. It is consists of three components namely the Papuan Legislative Council (DPRP), Local Government (LG) and Papuan People's Assembly (MRP). In this context, DPRP positioned as a legislative body, local government as an executive body, and MRP as a cultural representative body of indigenous Papuans. As a legislative body, parliament is authorized to carry out the functions of legislative field, which includes: legislation, budgeting and supervision.

The consequences of special autonomy policies implementation in Papua is automatically apply two forms of local regulations of Province local regulation (Perdasi) and Specials local regulation (Perdasus). Perdasus and perdasi are at same level, meaning that one is not higher than others, but there is a difference of function principle based on mandate of Law No. 21 Article 1 year 2001. This means that any policy within framework of special autonomy must refer for both regulations as mandated under the special autonomy policy.

#### SAF management policy:

Financial balance is a transfer made by central government to local government and followed by handover of authority or known as money follows function. Transfer system is one of government's authorities to determine types of beneficial assistance to local, including the funds transfer in special autonomy policy in Papua. It assistance is intended to give beneficial to local. It needs regulations for transferring the funds.

Funding flows is derived from central government transfers to local government through equalization fund and special autonomy fund (SAF) and adjustment funds allocated in two funding. SAF consists of a special reception sourced from 2% of ceiling of national GAF and infrastructure funds

received by Papua Province are funding sources other than adjustment fund.

SAF revenue sources are local transfer. It is revenue for Papua Province for Development Budgeting and Expenditure (APBD) to be used in accordance with mandate of Special Autonomy Law. However, it should be understood that funds were transferred to local has characteristics and different purposes. Both sources are grouped in transfer of funds to regions (SAF and adjustment funds) with ceiling and allocation at different regulations. SAF especially is regulated by Perdasus that further followed by governor's decision. While the specificity of equalization funds is to increase

acceptance of special autonomy policy derived from petroleum and natural gas. It does not appear in special autonomy fund group.

## Papua Provincial Revenue Potential Through Special Autonomy Policy:

Special autonomy policy is expected to makes Papua Province able to answer a number of problems faced. Law 21 year 2001 actually has given an opportunity to develop regional initiatives with potential revenues derived from natural resources. For more details, below is revenue comparison between Papua and other regions in Indonesia for Law 33 year 2004 and Law No. 21 year 2001.

Table 1: Difference of financial rights with other regions of Papua Province in Indonesia

No.	Revenue	Policy	
		Law 33 year 2004	Law No. 21 year 2001
1	Tax on land and buildings	90%	90%
2	ВРНТВ	80%	80%
3	Personal revenue tax	20%	20%
4	Forestry		
	Contribution of forest concessions	80%	80%
	- Reforestation Funds	40%	80%
5	Fishing	80% untuk kabupaten/kota	80%
6	General mining	80%	80%
7	Geothermal mining	80%	-
8	Petroleum mining 15	15,5%	70% for 1-25 years, 50% for 26 years
			and beyond
9	Gas/natural mining	30,5%	70% for 1-25 years, 50% for 26 years
			and beyond
10	Special revenues for special autonomy	-	Equivalent to 2% national ceiling of
			allocation funds
11	Additional funding for special autonomy	-	Defined between the government and
			Parliament based on province
			proposal every year

Source: Law No. 33 year 2004 and Law No. 21 year 2001

The allocation sharing at Table 1 clearly compares fundamental difference of two regulations. However, follow-up of points 8 and 9 to this research has not been confirmed from the SAF management, related to special revenue that comes from both. Usage the receipts from the second post principally becomes addition for governance interest, regional development, as well as improving people's welfare. It also becomes a correction on the government for its commitment to hand over greater authority to regions in realizing the region's autonomy.

## SAF Distribution and allocation:

Special autonomy policy in Papua Province is expected to become a solution and evidence of central government seriousness. However, implementation process of special autonomy policy

would bring new problems. SAF as funds supplements for special autonomy policy should have clear regulatory references, good function, objective and the responsibility. SAF allocation ceiling of 2% from national GAF to provincial and district/city does not have a clear regulation, even in Article 34 on Special Autonomy also does not regulate the amount of SAF allocation. This potentially raises new problems because in addition to special autonomy policy, there is also Regional Autonomy (decentralization) whose has different purpose. Therefore, it is indicated that special autonomy policy is simply a political policy to solve disintegration. Portion of SAF allocation between provincial and district/city are arranged through regulations, as shown in Table 2.

Table 2: Portion of SAF allocation between provincial and district/city

Table 2: Portion	of SAF allocation between	een provincial and d	istrict/city
Year	Portion		Law
i eai	District/ City	Province	
2002-2003	40%		Ministerial decree No. 47/KM.07/2002 dated 21 <sup>st</sup> February 2002 on how to allocate SAF in Papua Province
2004-2006	60%		Bylaw No. 2/2004 regarding the division of revenues in context of special autonomy
2007-Now	60%		Perdasus No. 1/2007 regarding the distribution and management of revenues in framework of special autonomy implementation in Papua

Source: Finance and Asset Management Agency Papua Province. (2011)

However, research results shows that the implementation generally does not refer to these provisions. This shows that SAF management not refers to Perdasus and government regulation. This fact is consistent with findings of Financial Audit Agency (LHP, 2011), which states that "special autonomy fund management is not supported by adequate rules for specific local regulations and government regulations to implement Law No. 21 2001". In addition, year portion distribution/allocation did not correspond to reality. According Sumule (2003), there are three requirements that cannot be ignored in determining the distribution portion of SAF allocation, based on citations of Article 34 paragraph (7) of Law No. 21 Year 2001. They are a) the funds source is divided between Papua Provinces, districts and cities, b)

division should be regulated in a fair and balanced by giving special attention to locals, c) fair and balance arrangement must be in form of Specials local regulation.

This phenomenon shows formal legal issues for policy applied in Papua Province. How to achieve the purpose of special autonomy policy if the cornerstone policy is not accompanied by a clear and focused regulation and refers to policy implementation of Law No. 21 year 2001. SAF allocation mechanism is part of domination practice by Papua government and DPRP, both elite ignore the mandate of Special Autonomy Law. It also shows clearly the lack of community involvement as stakeholders in budget preparation since fiscal year 2005-2010.

Table 3: Distribution/allocation of SAF to district/city in Papua Province

No.	District	Year (Mi	llion Rupiah)				
INO.	District	2005	2006	2007	2008	2009	2010
1	District of Jayapura	28.50	54.48	57.16	60.82	52.66	52.66
2	District of Yapen Waropen	29.00	54.08	56.76	60.38	52.28	52.28
3.	District of Biak Numfor	28.50	55.77	58.53	62.27	53.91	53.91
4	District of Nabire	29.00	53.11	55.74	59.30	51.34	51.34
5	District of Merauke	28.50	55.31	58.05	61.76	53.47	53.47
6.	District of Jayawijaya	29.00	61.60	64.65	68.78	59.55	59.55
7.	District of Paniai	30.30	59.79	62.75	66.75	57.80	57.80
8	District of Puncak Jaya	30.30	61.15	64.17	68.27	59.12	59.12
9	District of Mimika	28.60	55.77	58.53	62.27	53.91	53.91
10	Jayapura City	27.10	52.66	55.26	58.79	50.90	50.90
11	District of Waropen	30.10	56.09	64.86	62.63	54.23	54.23
12	District of Asmat	31.50	61.80	64.86	69.00	59.74	59.74
13	District of Boven Digoel	30.10	59.98	62.95	66.97	57.99	57.99
14	District of Mappi	31.10	59.72	64.86	66.68	57.74	57.74
15	District of Sarmi	30.25	57.58	60.43	64.29	55.67	55.67
16	District of Keerom	30.00	57.00	59.82	63.44	55.10	55.10
17	District of Tolikara	31.00	61.80	64.86	69.00	59.74	59.74
18	District of Peg. Bintang	31.00	61.80	64.86	69.00	59.74	59.74
19	District of Yahukimo	31.50	61.80	64.86	69.00	59.74	59.74
20	District of Supiori	29.50	50.71	62.95	56.62	40.02	49.02
21	District of Yalimo	-	-	-	5.00	12.27	16.86
22	District of Lanny Jaya	-	-	-	5.00	12.27	16.86
23	District of Nduga	-	-	-	5.00	12.27	16.86
24	District of Puncak	-	-	-	5.00	12.27	16.86
25	District of Dogiyai	-	-	-	-	12.27	16.86
26.	District of Memberamo Tengah	-	-	-	-	12.27	16.86
27	District of Memberamo Raya	-	-	-	-	50.18	50.18
28	District of Intan Jaya	-	-	-	-	12.27	16.86
29	District of Deiyai	-	-	-	-	12.27	16.86

Source: Finance and Asset Management Agency in Papua Province

The findings related to distribution/allocation of SAF for provincial and district/city are an important part of accounting role, particularly in management of public funds. SAF disbursement mechanisms from central to provincial are regulated in finance minister's decision, but the decision does not specifically regulate the distribution/allocation to district/city. Special treatment through a special autonomy policy in Papua are unique, the power owned by elite in local government and DPRP is the authority to govern distribution/allocation based regulation. However, from accounting aspects, distribution/allocation to

districts/cities should appear in budget as well as the inclusion of SAF from the center to provinces (Table 3). Abandonment of accounting treatment in SAF is the fact that accounting has become self-interest on power. Reforms are needed to examine the budget from the aspect of "political budget", especially regarding the policy for distribution/allocation of budget to public. Reform should also touch budget reform, or vice versa budget reform should be integrated into political reform agenda. Political reform is a form of decentralization and democratization, while decentralization in budget sector produces what is called fiscal decentralization,

which incidentally followed by politic. It is associated with distribution/allocation from the central government to regions with aim to fund public services appropriately and close to local context and preferences (Oates, 1997; Burki, et. al. 1999; Bird, 2000; Boex, et. al. 2006).

# The impact of regulatory uncertainty in SAF distribution/allocation:

Based on report of Supreme Audit Agency (BPK) in 2011, total finding of management and accountability examination for SAF is Rp 281.07 million. This finding in form of a loss, potential loss, lack of acceptance, wasteful, and ineffectiveness

 Table 4: Group management inspection findings SAF 2002-2010

which have implications for rupiah value. In addition, there are also weaknesses in internal control system of administrative and the action has no implications for money value but it needs improvement. Evaluation results of internal control system evaluation for SAF management and accountability showed weaknesses in planning aspects, bookkeeping and recording, reporting and responsibility. Internal control system weakness are grouped by: a) the weakness of control system for accounting and reporting, b) weakness on implementation of revenue budget control system and expenditure, and c) the weakness of internal control structure (Table 4).

No	Group of Findings	Cases	Value (Million Rupiah)
Non-co	mpliance with regulations resulting in:		
1.	Local Losses	102	124.191,99
2.	Local potential losses	5	5.039,28
3.	Government lack	19	5.350,11
4.	Administration	36	-
5.	Wasteful /uneconomical	4	1.258,88
6.	Ineffective	52	145.235,12
Total		218	281.075,41

Source: IHPS-BPK (2011)

Regulation uncertainty for revenue distribution leads to non acceptance of funds for oil and natural gas within framework of special autonomy policy, which is the official revenue local. It has implications for achievement of priority programs in education and health. Another implication relates to Human Development Index (HDI) of Papua Province were not shifted from lowest of 33 provinces in Indonesia. In addition, GDP as indicator of IPM also more dominated by revenue from center. It means dependence to central is very high. Therefore, special autonomy or asymmetry decentralization cause differences in status and/or power among the units as part of federal state or decentralized state in Constitution or other legal provisions (Hombrado, 2001). Autonomy is the substance of power dispersion issue as real manifestation of democracy.

# Critical Reflection on Saf In Papua Province: Overview from political and economic aspects:

Special autonomy policy for Papua Province full of self-interest from central and local elites. These interests cannot be separated from the assets owned Papua It potentially Province. creates opportunistic behavior for elitist. Through decentralization momentum and regional autonomy, it should better able to make the region more independent and creative in responding to community issues. Decentralization implementation should be able to trim the role of elite centers to intervene local including the use of regional assets. Theoretically, central role of elite decrease, but in practice there is no reduction (in power syndrome). Regional elites also seek to maximize their interests by using this momentum (pre-power syndrome).

A way to obscure the substance of SAF policies is through omission and discarding the regulations of special autonomy policy because regulatory clarity would limit the move for national and regional elites, especially the MNC. Fulfillment of MNC interests through central elite approval for mining exploration expansion and longer time period is done in order the existence is not disturbed and is protected on behalf of law. While elites in region participate to obscure the substance of special autonomy policy by promoting their interests, increasing the conflict. This supports Eates (1980) about the "tyranny of bottom line". It is finally seen that accounting has become an integral part of political system and affect on emergence of a very close relationship between politics and accounting (Adrianto and Irianto, 2008). This also clarifies the relationship between accounting and distribution of resources and distribution of power in society (Cooper and Sherer, 1984).

# Review of History Aspects and Institutional Environment:

SAF discretion is occur as a result of omissions by central and regional elites by avoiding the legal products as government regulation and Perdasus and Perdasi mandated in Law No. 21 Year 2001. This is the reality of low commitment from central and local government apparatus. Inexistence of specific regulations makes SAF treatment become not proportional and miss the target. Whereas the accounting role in public sector, especially governments, should be able to redistribute revenue and wealth, if there is the political will from apparatus (elite central and local) to control power.

In addition, accounting treatment for regions with decentralization policy should have differences in financial management with local without special autonomy policy. It is aimed to measure the SAF performance in order to improve the local welfare with special autonomy policy. Although products of public sector full of political policy, the complexity of distribution/allocation on revenue and wealth tend to be intertwined with interests, competitive and even conflict. Accounting is understood as part of a set of rules to link power, economy, and politics through introduction of accounting standards (Cooper and Sherer, 1984). At this level PEA is able to uncover the accounting role which is only used as a tool to realize the self interest and opportunistic behavior of central and regional elites that lead to inequities in SAF distribution/allocation.

# Review of Accounting Policies Aspects Based on Human Beings Motivations:

Application of accounting treatment in special autonomy era is alleged as part of neoclassical economic theory implementation with a view that reporting and disclosure become tool to safeguard the position of ruling party (the elite) to get resources. This is seen in upper distribution portion of revenue, wealth and power with direct implications on distribution/allocation of SAF in budget. In addition, of a policy creation, as budgeting, should be directed to respect, to protect and to fulfill) the basic human rights as economic, social and cultural rights that born from nation consensus. In addition, policies substance should describe the alignments that are geared to elite itself or even to public. If addressed to public, then the distribution/allocation more focused on public expenditure, with taking into account the infrastructure and bureaucratic expenditure. In fact, it is more dominated by bureaucratic expenditure rather than infrastructure and public expenditure. It makes pyramidal budget become a strategic solution to address the issue and be a breakthrough of budget management in Papua, and a proof that partisanship pro-people budget is the most basic human expectation. This means accounting policies should be guided by motivations within man, so that someday it will awaken the harmony accounting framework namely accounting humanizing and away from self interest and it is built on foundations of political economy theory. As noted by Miller (1994), political economy theory emphasis on fundamental relationship between economic and political impetus in society. Cooper and Sheerer (1984) states that accounting reports affect on distribution of revenue, power and wealth.

# The role of elitist power to determine SAF regulation in Papua Province:

Exploration about elitist power concerns about implementation of special autonomy policy through the achievement of No. 21 year 2001. It appears that

Perdasus and Perdasi have not been fully implemented by elite to manage SAF. Regulations in SAF management are same as local regulations which do not acquire Autonomy policy. This fact is an indicator that regional elites still has differ meaning of special autonomy law. The impact of regulatory uncertainty has implications to accounting role in SAF management. Accountability for these special funds is also required to responsible as mandated by Special Autonomy Law.

In this regard, PEA can reveal power role to ride elite interests through the omission and negligence the Law No. 21 year 2001. This is because the elite have self interest so that special autonomy policies tend to be loaded politics and power. Whereas giving authority to local is intended to make local independently determine his wishes which is tailored to needs. It will give big potential of opportunistic behavior from elite by creating tension that tends to be politicized to meet the desires of elite who backed by economic and politic. Therefore, not readiness Perdasi Perdasus about SAF utilization can be the ultimate weapon for local government to argue that elite of other local as DPRP and MRP are also responsible for completion of Perdasus particularly SAF management. Moreover, the absence of regulatory clarity create potential to practices domination by elite in center. It is one form of selfinterest practices to accommodate the interests of elite in central and local. As noted by Miller (1994), self-interest practice creates opportunity to harness power of elite by trying to create tension which tends to be politicized and used as a motif to meet elite interest because of their economic and political impetus in society.

#### Conclusions:

These research results provide practical implications for central and local government to formulate Special Autonomy policies in Papua Province through mandate of Special Local Regulation (Perdasus) and Provincial Regulation (Perdasi). In addition, it can become a benchmark in SAF management and distribution/allocation based on regulation (Perdasus and Perdasi) to accelerate master plan development for society welfare in Papua. The theoretical implication is this research can provide more room for implementation of PEA theory, not limited only to cases in which the corporation is focused on privatization. This study limitation is the samples only from Papua Province. Therefore, the findings cannot be generalized to autonomous region. Future studv recommended to fill this gap to strengthen the results of this study.

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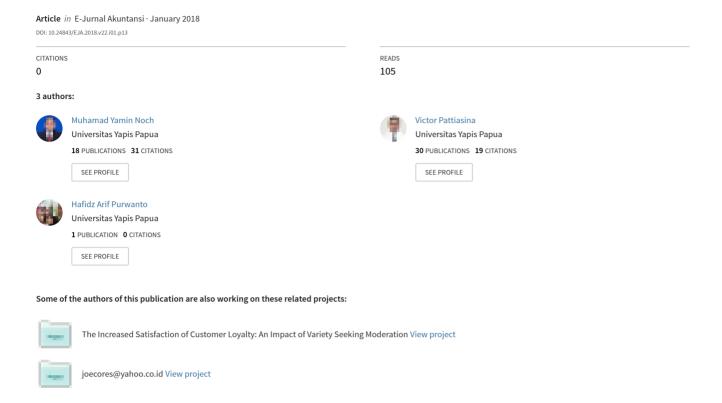
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# Elasticity Measurement Of Local Taxes And Charges In Forecast Of Own-Source Revenue (PAD) Of Provincial Government In Indonesia



# Elasticity Measurement Of Local Taxes And Charges In Forecast Of Own-Source Revenue (PAD) Of Provincial Government In Indonesia

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## **ABSTRACT**

This research aims to measure the elasticity of local taxes and charges in the framework of Own-Source Revenue (PAD) forecasting of Provincial Government in Indonesia. By using Fully Modified Least Square (FMOLS) method, the result shows that long-term elasticity or local taxes growth of 0.865 is still under GRDP growth, in accordance with the growth of charges of 0.756 shows the same result. While short-term elasticity or local taxes stability of 0.568 gives an overview of local taxes that is not sensitive to changes in GRDP, while the stability of charges of 2.704 shows the result is sensitive to changes in GRDP, however the value of stability is not supported sufficient significance so that the sensitivity factor of PAD is influenced by factor in beyond that. Forecasting result using the model in 2013, both local taxes and charges show better result than actual forecasting shown with smaller Revenue Forecast Error (RFE) value.

Keywords: Local taxes, local charges, FMOLS, RFE

# INTRODUCTION

Own-Source Revenue (PAD) aims to authorize regional government to finance the implementation of regional independence in accordance with regional potential as a manifestation of decentralization (Andriyani and Siregar, 2013). The role of regional government in exploring and developing various regional potentials as a source of local revenue will determine the success of government task implementation, development and community service in the region.

In the planning of revenue target especially PAD should be more realistic in accordance with the potential of available resources by considering social condition of community (Basri, 2002). During this in the determination of budget,

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the usual approach is incremental approach (Mokoginta, 2002). PAD projection phenomena at Provincial Government in Indonesia during the period of 2002-2012 from the data of Finance Ministry shows that Revenue Forecast Errors (RFE) reached 18.24% above revenue target which gives an overview that Provincial Government projected its revenue too low.

The more turbulent the market environment, technology, and the external economy, management will be encouraged to arrange strategy (Bastian, 2005). In planning the PAD, factors that influence should be considered in order to avoid refraction in budget planning. Adi (2007) stated that one of the factors that can encourage the region's financial capacity is economic growth. Thus Gross Regional Domestic Product (GRDP) can be used as a benchmark for economic improvement of a region.

Research on the effect of Gross Regional Domestic Product (GRDP) on PAD shows positive and significant influence (Hidayat, 2009; Aryanti and Indarti, 2010; Muchtholifah, 2010; Agustri, 2011; Sari, 2013; Kusuma, 2014; Gitaningtyas, 2014). This means GRDP (Gross Regional Domestic Product) is one of the important component to know the region potential as an effort to receive the Own-Source Revenue (Sari, 2013).

To measure the growth and stability of local taxes in relation to economic changes, it is necessary to study the relationship of local taxes revenue and GRDP fluctuation, this is to estimate the elasticity of local taxes revenue and show growth and stability of local taxes revenue (Ishida, 2011). Tax elasticity is defined as percentage of tax revenue change is divided by percentage of GRDP change (Ishida, 2011). 1% increase of GRDP should be positively responded by PAD. Accordingly, Cotton (2012) added in terms of monitoring of tax realization, elasticity historical data and tax buoyancy give an overview of tax collection performance and give input for the government to raise or lower tax rates and/or tax base in formulation of national budget.

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Problem formulations in this research are: 1) How is the level of local taxes stability on province in Indonesia in the long-term and short-term? 2) How is the level of local charges stability on province in Indonesia in the long-term and short-term? 3) How is the level of revenue forecasting accuracy for 1 year after the period of measuring the stability of local taxes and charges? Purposes of this research are:1) To know the level of local taxes elasticity of Provincial Government in Indonesia in long-term and short-term. 2) To know the level of local charges elasticity of Provincial Government in Indonesia in the long-term and short-term. 3) To know the accuracy of local taxes and charges forecasting results of Provincial Government in Indonesia at 1 year after the estimation period.

The results of this research are expected to give the following benefits:

For Academics this research is the initial source for further research on the growth and stability of Own-Source Revenue (PAD) and forecasting effort (forecast) of PAD for the future of Provincial Government in Indonesia. For Regional government this research is expected to give benefits for improvement of PAD budgeting, especially local taxes and charges on Provincial Government in Indonesia and give an appropriate understanding for the actors of government, especially directly involved in the budgeting planning process of APBD. For Researcher this research is expected to increase the insight of researcher's knowledge about growth and stability of Own-Source Revenue (PAD) and forecasting effort (forecast) of PAD of Provincial Government in Indonesia, besides as one of the requirements of bachelor degree graduation.

Suparmoko (2002) in Badrudin (2012) stated that public economy is the study of how the government does tax levied and charges with the principles of taxation in an effort to increase the budget strength of government budget. Public economy is closely related in the process of decision-making based on democracy principle. If the electors of representatives monitor the activities of their representatives, these representatives will work harder and try to convince electors that their contribution to tax payments will lead to better condition (Badrudin, 2012). Government plays a role in the increase of Gross Domestic Product (GDP)

through public spending issued. Musgrave and Musgrave (1989) and Fuad, et.al (2005) in Badrudin (2012) Government is indispensable in the economy especially to carry out its function in accelerating economic growth so as to improve the living standard of population at a reasonable level. In other words, in the theory of public economy, government plays an important role in distribution of people's prosperity through tax instrument and economic stability.

Revenue shows the sum of all money received by a person or household for a certain period of time (usually one year). Revenue consists of wages or labor receipts, from property such as rent, interest and dividend, as well as payment of transfer or receiving payments from government such as social benefits, or unemployment insurance (Samuelson and Nordhaus 1993 in Muchtolifah 2010). According to Muchtolifah (2010), revenue can be measured by the sum of. Consumption during a period, whether from revenue (factor of production or transfer) received by a person for a certain period of time or the use of durable goods obtained previously. Net growth in individual property during a certain period. So on that basis, national revenue can be defined as the value of production of goods and services created in an economic activity within a certain period.

Budgeting is process of preparing a budget containing a statement in the form of a unit of money that is a reflection of activity and performance target to be achieved for a period of time (Astuti, 2007). Further Glenn A. Welsch in Mokoginta (2002) defined budget as a form of statement of plan and management policy used in a certain period as a blue print in that period. While Astuti (2007) briefly defined budget as a plan that is arranged in quantitative form in monetary unit for a period.

One of the important things in budget preparation is the measurement of financing capability of activities to be implemented in the form of revenue estimate, in the era of regional independence as now PAD has become an important point in the effort to increase local revenue. Law No. 33 of year 2004 on Fiscal Balance Between Central Government and Regional Government

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defines own-source revenue as revenue derived from regions levied based on regional regulations in accordance with regulation of law.

The magnitude of PAD shows the ability of regions to meet their own needs and to maintain and support the results of development that have been implemented and will be implemented in the future (Mamesah, 1995 in Abdullah and Halim, 2003). So that the addition of PAD plays an important role to create regional independence, therefore each region is competing to find a source from its own economic activities through extensification and intensification steps of Own-Source Revenue (PAD). Setiaji and Adi (2007) added that this level of autonomy is showed by the contribution of PAD (share) to fund the regional expenditures. Own-Source Revenue (PAD) based on Article 157 letter a Law No. 32 of Year 2004 concerning Regional Government consists of Local taxes, local charges, result of Local own source assets and Other Lawful Local Revenue.

Local taxes in Law No. 28 of year 2009, it is mentioned that local taxes is obligatory contribution to the region owed by private individuals or entities of enforced nature based on the law, without receiving direct compensation and used for the needs of the region mostly for the welfare of the people. Law Number 28 of Year 2009 concerning Local taxes and Charges, divides the taxes into 2 (two), namely. Types of Provincial Taxes consist of: 1) Motor Vehicle Ta, 2) Excise for transferring ownership of motor vehicle, 3) Motor Vehicle Fuel Tax, 4) Surface Water Tax, and 5) Cigarette Tax

Types of District / Town Taxes consist of: 1) Hotel Tax, 2) Restaurant Tax, 4) Entertainment Tax, 5) Advertising Tax, 6) Street lighting tax, 7) Tax on non-metal mineral and rock, 8) Parking Tax, 9) Ground Water Tax, 10) Tax on Swallow's Nests, 11) Rurar and urban land and builsing tax, and 12) Excise/tax for acquiring right on land and building.

Local Charges is one type of local revenue collected as payment or direct rewards for services provided by regional government to community (Hidayat, 2009). Based on Law Number 28 Year 2009, local charges is local retribution as payment for services or certain permits specifically provided and/or given by regional government for the purpose interest and benefits and which private

person or entities. Thus the definitions of local charges in accordance with the main characteristics are: 1) Retribution is levied by the region, 2) retribution tariff is set by local regulations, and 3) Retribution is paid by them who enjoy certain facilities provided by the region. Law Number 28 Year 2009 states that the object of retribution consists of:

- a. General Services;
- b. Business Services;
- c. Certain Permits.

Management result of Local own source assets is the source of PAD derived from participation of regional government capital in business entity outside the governmental area. Datu (2012) explained local companies can be divided into two categories: First; an own-local company that is a regional company established by the region itself. And Second; a local company derived from his superior government. Supriatna (1993) in Datu (2012) stated that the results of regional company consist of First; For regional company with total capital is Local own source assets (without external capital), regional business results in the form of regional development funds for expenditures of magnitude in accordance with applicable regulations. and Second; For a regional company with capital partially is Local own source assets (with additional capital from outside), the results of regional company in the form of development funds and parts for regional budgets of magnitude in accordance with applicable regulations. On that basis, results of the management may be either dividend or profit sharing from business entity receiving capital participation.

Other Lawful source of PAD is derived from sale of regional property, giro service, the receipt of compensation for regional assets (TP-TGR), overpayment of third party payment, installments and/or installments of motor vehicle and other of revenue (Mawardi, 2002). In general, other lawful of PADs is Own-Source Revenue that can not be categorized into local taxes, local charges and Management Result of Local own source assets. Although there is realization of this PAD type but this revenue source is very fluctuation every year and there has not

There are 4 (four) methodologies in estimating the growth and stability of revenue, namely: buoyancy, coefficient of variance, potential variability in tax revenue, and elasticity (Ishida, 2011). This research uses parameter used by Ishida (2011) to estimate the growth and stability of local taxes and charges on Provincial Government in Indonesia, namely the elasticity method for long-term and short-term assessment.

There are 2 (two) approaches in assessing the relationship between long-term and short-term elasticities. Groves and Kahn (1952) in Ishida (2011) stated there is a direct relationship between long-term and short-term elasticities which in this approach elasticity of long-term revenue is also defined elastic in the short term. Thus there is a trade-off between long-term and short-term stability. Sobel and Holcombe (1996) gave a different approach, which long-term and short-term elasticities don't have directly relationship. Long term tax elasticity > 1 means the tax growth is higher than average of GDP, while short-term tax elasticity < 1 means tax fluctuation is more stable. Thus there is no trade-off between long-term and short-term stability.

Long-term tax growth is estimated by the following equation:

$$Ln(R_t) = \alpha + \beta ln(Y_t) + \varepsilon_t...(1)$$

Equation (2.1) is called Revenue Level Models (Ishida, 2011). In the equation, Rt and Yt are real tax revenue and GDP during t period.  $\beta$  coefficient is the long-term revenue elasticity, which  $\beta$  coefficient > 1 indicates that local taxes grows higher than GDP, while  $\beta$  coefficient < 1 indicates that local taxes grows lower than GDP. Tax with long-term elasticity > 1 means tax with the high growth, on the contrary Tax with long-term elasticity < 1 means tax with the lower growth. Stability of short-term revenue is estimated by the following equation:

$$\Delta \operatorname{Ln}(R_t) = \alpha + \beta \Delta \ln(Y_t) + \mu_{t-1} + \varepsilon_t...(2)$$

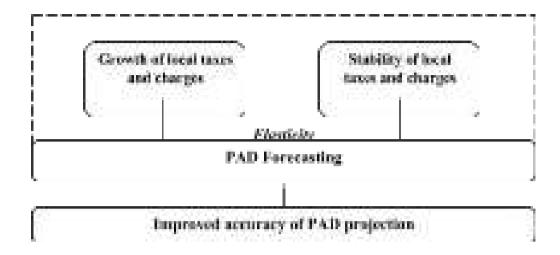
Equation (2.2) is called Error Correction Model (ECM), which this equation is the first derivative of equation (2.1) plus  $\mu_{t-1}$  which is lag of estimation error. Error Correction Model (ECM) is a model used to correct the regression equation among variables that are not stationary individually to return to the equilibrium value in the long term, with the main condition being the existence of cointegration relationships among the constituent variables (Ajija, et al , 2014).

Forecasting revenue is an activity to estimate the value that may be received in the future measured by money which is based on data and assumptions of the present. Forecasting is necessary because of the timelag between expected event and current condition. If the timelag is long then forecasting will be important and much needed, especially in determination of an event that will arise so that it can be prepared things or actions needed to anticipate the situation. In general, forecasting is divided into 2 (two), namely:

Qualitative Forecasting is a forecast based on qualitative data in the past based on intuition thinking, opinion and knowledge and experience of the preparation. Quantitative Forecasting is a forecast based on quantitative data in the past. Whether good or not a method used is determined by the difference or deviation between the forecast results with the reality that occurred. Forecasting method based on the use of relationship pattern analysis between variables that are estimated with time variable which is time series (time series). Forecasting methods included in this type are: 1) Smoothing Method, 2) Box Jenkins Method, 3) Method of Trend Projection with Regression.

Forecasting method based on the use of relationship pattern analysis between variables to be estimated with other variable that influence it, not the time, which is called correlation method or causal (causal method). Forecasting methods included in this type are: Regression and Correlation Methods, Econometric Method, and Input Output Method. Based on the above description of problem formulation in Chapter I, various theoretical studies that can support this research, the authors set conceptual framework as follows:

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Picture 1. Conceptual framework

Elasticity assessment is conducted to see the growth and stability of local taxes and charges. The growth is measured by long-term elasticity while stability is measured by short-term elasticity. Forecasting of local taxes and charges is measured through the growth equation of local taxes and charges that reflect longterm elasticity. Stability is used to measure the short-term fluctuation in local taxes and charges. The use of growth value and stability of local taxes and charges in PAD forecasting is expected to improve the accuracy of forecasting.

# RESEARCH METHOD

This research is a developmental research that is quantitative. Developmental research is research that aims to investigate pattern and sequences of growth, development, and or change as a function of time (Partino, 2008). Research design is preparation of forecasting model of Own-Source Revenue (PAD) through the elasticity measurement of local taxes and charges with Gross Regional Domestic Product (GRDP) as revenue base (tax base). The out put expected can help regional government, especially Provincial Government in Indonesia, in estimating Budget of Own-Source Revenue (PAD) to make a more accurate by reducing Revenue Forecast Error (RFE) level as an indicator of success.

The research flow uses the financial and economic data of provincial government during the period of 2002-2012 as an estimator of growth model and stability of local taxes and charges in the long term and short term measured by the elasticity value to GRDP. Model equation is a forecasting model used to assess Revenue Forecast Error (RFE) in 2013. This research uses secondary data obtained through relevant agencies authorized to issue data namely Ministry of Finance, Audit Board (BPK RI), and the Central Bureau of Statistics (BPS). Research data is limited in the period of 2002-2013 collected from November 2015 to January 2016.

Population used in this research is Budget Realization Report (LRA) and economic data of Provincial Government in Indonesia Year 2002-2013. Sample means taking a portion of population as the population representative (Partino, 2008). sampling technique used in this research using purposive sampling, namely sampling using criteria as follows:

- a. Provincial Government which presents the revenue budget and revenue realization for the period of 2002-2013 in full.
- b. The revenue and realization budget can be downloaded through the website www.djpk-kemenkeu.go.id or the result of audit findings Report (LHP) of BPK-RI.
- c. Revenue realization presented by Provincial Government shall be stipulated in its budget in APBD.

The results of sampling with criteria determined are as follows:

Tabel 1. Sampling

Description	
Number of Provinces in Indonesia	34
Provinces that do not provide complete financial data for 2002-2013 (12 years)	(13)
Provinces that provide complete financial data for 2002-2013 (12 years)	21
Sample of Research (21 Provinces x 12 Years)	252

Research variables used and operational definition in this research: Independent variable  $(X_1)$ : Gross Regional Domestic Product (GRDP) of Province and Dependent variable: Local taxes  $(Y_1)$  and Local charges  $(Y_2)$ 

Research variables used are intended to measure the level of revenue base elasticity on revenue acquisition. Revenue base is proxied through the figure of Gross Regional Domestic Product (GRDP), whereas the revenue acquisition is proxied with realization figure of local taxes and charges. Operational definitions of each variable are as follows:

Gross Regional Domestic Product (GRDP) is calculated based on the constant price of 2000 and expressed in rupiah. Local taxes used is the budget data and realization of provincial tax in Indonesia for the period 2002-2013, which is the accumulation of Motor Vehicle Tax, Excise for transferring ownership of motor vehicle, Motor Vehicle Fuel Tax, Surface Water Tax, and Cigarette Tax. Local Charges used is the budget data and the realization of provincial retribution in Indonesia for the period 2002-2013 which is the accumulation of Public Services Retribution, Business Services Retribution and Certain Services Retribution. Stationarity test is done by using *Unit Root Test* on variables used. This is done to see the stationary condition of research data, because economic and financial data tend to be not stationary. The Unit Root Test results are as follows GRDP

Tabel 2. Following Information

			Cross-		
Method	Statistic	Prob.**	sections	Obs	
Null: Unit root (assumes common unit root process)					
Levin, Lin & Chu t*	13.5392	1.0000	21	208	
Null: Unit root (assumes individual unit root process)					
Im, Pesaran and Shin W-stat	17.3943	1.0000	21	208	
ADF - Fisher Chi-square	1.32984	1.0000	21	208	
PP - Fisher Chi-square	1.25872	1.0000	21	210	

From the data it appears that the probability of 4 (four) methods used shows the value 1,0000 which the value is greater than the standard  $\rho$ -value set of 5%. So accepting H0 which states that GRDP data is not stationary.

## a. Local taxes

			Cross-	
Method	Statistic	Prob.**	sections	Obs
Null: Unit root (assumes common unit root process)				
Levin, Lin & Chu t*	-4.70039	0.0000	21	207
Null: Unit root (assumes individual unit root process)				
Im, Pesaran and Shin W-stat	1.45223	0.9268	21	207
ADF - Fisher Chi-square	25.3492	0.9802	21	207
PP - Fisher Chi-square	65.0772	0.0127	21	210

From the data it appears that probability of 2 (two) methods used by Levin, Lin & Chu and PP - Fisher Chi-square show the value of 0.0000 and 0,0127 which means it is smaller than the  $\rho$ -value standard set namely 5%. However, the other two methods Im, Pesaran and Shin W-stat and ADF - Fisher Chi-square show probability values of 0,9268 and 0,9802 which the number is above the  $\rho$ -value standard. So on that basis, local taxes is categorized as receiving H0 stating that local taxes data is not stationary.

# b. Local Charges

		Cross-	
Statistic	Prob.**	Sections	Obs
-4.68325	0.0000	21	207
-1.92387	0.0272	21	207
54.1837	0.0985	21	207
57.5496	0.0555	21	208
	-4.68325 -1.92387 54.1837	-4.68325 0.0000 -1.92387 0.0272 54.1837 0.0985	-4.68325 0.0000 21 -1.92387 0.0272 21 54.1837 0.0985 21

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From the data it appears that the probability of 2 (two) methods used by Levin, Lin & Chu and Im, Pesaran and Shin W-stat show the value of 0,000 and 0,0272 which means it is smaller than the  $\rho$ -value standard set namely 5%. However, two other methods of ADF-Fisher Chi-square and PP-Fisher Chi-square show probability value of 0,0985 and 0,0555 which the number is above the  $\rho$ -value standard. So on that basis, Local charges is categorized as receiving H0 stating that Local charges data is not stationary. Changes in stationarity of data is done by converting data into first difference form with the following results.

# a. GRDP

		Cross-			
Method	Statistic	Prob.**	sections	Obs	
Null: Unit root (assumes common unit root process)					
Levin, Lin & Chu t*	-8.53745	0.0000	21	185	
Null: Unit root (assumes individual unit root process)					
Im, Pesaran and Shin W-stat	-3.18724	0.0007	21	185	
ADF - Fisher Chi-square	76.8515	0.0008	21	185	
PP - Fisher Chi-square	99.8042	0.0000	21	189	

From the data it appears that the probability of 4 (four) methods used show a value is smaller than the  $\rho$ -value standard set namely 5%. So it rejects H0, and it means the GRDP data is stationary.

# b. Local taxes

			Cross-	
Method	Statistic	Prob.**	sections	Obs
Null: Unit root (assumes common unit root process)				
Levin, Lin & Chu t*	-15.9688	0.0000	21	180

Null: Unit root (assumes individual unit root process)				
Im, Pesaran and Shin W-stat	-8.95793	0.0000	21	180
ADF - Fisher Chi-square	159.397	0.0000	21	180
PP - Fisher Chi-square	230.870	0.0000	21	189

From the data it appears that the probability of 4 (four) methods used show a value of 0,000 which the value is smaller than the  $\rho$ -value standard set namely 5%. So it rejects H0, and it means the local taxes data is stationary.

# c. Local Charges

	Cross-			
Statistic	Prob.**	sections	Obs	
-11.2699	0.0000	21	183	
-5.61649	0.0000	21	183	
115.163	0.0000	21	183	
160.008	0.0000	21	187	
	-11.2699 -5.61649 115.163	-11.2699 0.0000 -5.61649 0.0000 115.163 0.0000	Statistic Prob.** sections -11.2699 0.0000 21 -5.61649 0.0000 21 115.163 0.0000 21	

From the data it appears that the probability of 4 (four) methods used show a value of 0,000 which the value is smaller than the  $\rho$ -value standard set namely 5%. So it rejects H0, and it means data retribution area is stationary. The processing results of this test data show the following results:

Alternative hypothesis: common AR coefs. (within-	
dimension)	

	Weighted		
	Statistic Prob. Statistic Prob.		
Panel v-Statistic	0.072145 0.4712-1.244596 0.8934		
Panel rho-Statistic	1.019544 0.8460 0.561675 0.7128		
	-		
Panel PP-Statistic	3.158977 0.0008-5.175832 0.0000		
Panel ADF-Statistic	- 0.0000-6.115744 0.0000		

1	7	<i>(</i> )	$\alpha$	Λ
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Alternative hypothesis: individual AR coefs. (betweendimension)

-	Statistic Prob.
Group rho-Statistic	2.631851 0.9958
	-
Group PP-Statistic	5.884140 0.0000
	-
Group ADF-Statistic	6.640433 0.0000

 $H_0$  of Cointegration test states if Probability >  $\rho$ -value standard namely 5%, then it receives  $H_0$ . From the results of processing, probability of Panel PP and Panel ADF are statistically and weighted statistical show the number of 0,000 which means it is under 5%, besides that individual Group PP statistic and Group ADF Statistic show the same number which is 0,000 which means it also under 5% significance. So data of GRDP, local taxes and charges are occurred cointegrasi.

Result of data processing, shows the equation result of FMOLS local taxes is as follows:

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LNPDRB	0.865986	0.001326	652.9160	0.0000

# LNPAJAK = 0.865986440966\*LNPDRB

The equation illustrates the long-term growth of local taxes measured by the elasticity of GRDP. Equation model that occurs LNPAJAK = 0.865986440966\*LNPDRB +  $\epsilon$  with 0,0000 significance under  $\rho$ -value of 5% so

that the model can be stated valid. From the equation, it can be seen that the long-term elasticity or growth of local taxes is 0.865986 and significant at 5%. Equation of Fully Modified OLS (FMOLS) of Local Charges. The result of data processing, shows the equation result of FMOLS retribution area is as follows:

Variable	Coefficient	Std. Error	t-Statistic	Prob.
LNPDRB	0.756540	0.001793	421.9555	0.0000

## LNRETRIBUSI = 0.756540334188\*LNPDRB

The equation illustrates the long-term growth of local charges measured by the elasticity of GRDP. Equation model that occurs LNRETRIBUSI =  $0.756540334188*LNPDRB + \epsilon$  with 0,0000 significance under  $\rho$ -value 5% so that the model can be stated valid. From the equation, it can be seen that long-term elasticity or local charges growth is 0.756540 and significant at 5%.

Error Correction Model (ECM) of Local taxes. Calculation results of local taxes ECM are known as follows:

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	0.153176	0.075595	2.026276	0.0444
D(LNPDRB)	0.568883	1.337961	0.425186	0.6713
UP(-1)	-0.430246	0.070633	-6.091295	0.0000
R-squared	0.186964	Mean dependent var		0.180528
Adjusted R-squared	0.177049	S.D. dependent var		0.287127
S.E. of regression	0.260472	Akaike info criterion		0.165159
Sum squared resid	11.12670	Schwarz criterion		0.221171
Log likelihood	-10.79075	Hannan-Quinn criter.		0.187893
F-statistic	18.85649	Durbin-Watson stat		2.515028
Prob(F-statistic)	0.000000			

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**Substituted Coefficients:** 

D(LNPAJAK) = 0.153175689507 + 0.568882828835\* D(LNPDRB) - 0.430246100068\*UP(-1)

The R<sup>2</sup> value of 0.186964 is smaller than the Durbin-Watson value of 2.515028 which means ECM of local taxes is not Spurious Regression so that ECM model of local taxes is valid. The lag of estimation error value indicated by the UP(-1) is negative value of -0.430246 at the significance of 0.0000 or less than the standard of 0.05 so that ECM equation of local taxes can be stated valid.

On the other hand, calculation of D(LNPDRB) value of probability shows the number of 0.6713 which the value is over the standard value of  $\rho$ -value 0.05 so that ECM equation is not significant, in other words, the short-term stability of the local taxes showed by the elasticity value has no clear relationship with GRDP. ECM equation of Local taxes:

D(LNPAJAK) = 0.153175689507 + 0.5688828288 \* D(LNPDRB)-0.430246100068 \* UP (-1)

indicates the value of local taxes stability in short term that is equal to 0.5688 or less than 1 (one) so that the fluctuation is still under the fluctuation of GRDP. Error Correction Model (ECM) of Local Charges. The calculation results of ECM retribution are known as follows:

Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	-0.083990	0.219253	-0.383074	0.7022
D(LNPDRB)	2.704118	3.881492	0.696670	0.4870
UR(-1)	-0.554198	0.073329	-7.557714	0.0000
R-squared	0.265631	Mean dependent var		0.055089
Adjusted R-squared	0.256675	S.D. dependent var		0.873254
S.E. of regression	0.752887	Akaike info criterion		2.287998
Sum squared resid	92.96161	Schwarz criterion		2.344010

Log likelihood	-188.0478	Hannan-Quinn criter.	2.310732
F-statistic	29.66042	Durbin-Watson stat	2.052951
Prob(F-statistic)	0.000000		

D(LNRETRIBUSI) = -0.083990249964 + 2.7041178626\*D(LNPDRB) - 0.554198242627\*UR(-1)

The R<sup>2</sup> value of 0.265631 is smaller than Durbin-Watson value of 2.052951 which means charges ECM is not Spurious Regression so that ECM retribution model is valid. Lag of estimation error value showed by a negative UR (-1) of -0.554198 on the significance of 0.0000 or less than the standard of 0.05 so that ECM equation of charges formed can be stated valid.

On the other hand, calculation of D(LNPDRB) value of probability shows the number of 0.4870 which is above the standard value of  $\rho$ -value 0.05 so that ECM equation is not significant, in other words, stability of short-term charges showed by its elasticity value has no clear relationship with GRDP. The ECM equation of charges is D(LNRETRIBUSI) = -0.083990249964 + 2.7041178626\*D(LNPDRB) - 0.554198242627\*UR(-1) indicates the value of charges stability in the short term that is equal to 2.7041 or more than 1 (one) so that it is so fluctuation above fluctuation of GRDP.

Tabel 3.

Calculation of Local taxes and Charges Forecasting

Description	RFE OF	RFE OF TAXES	RFE OF	RFE OF CHARGES
	TAXES 2013	MODEL 2013	CHARGES 2013	MODEL 2013
Average of RFE	11.08	8.76	41.71	31.94

The calculation results show that the RFE Model of local taxes is 8.76% and RFE model of charges is 31.94%. This condition is smaller than actual RFE 2013 for local taxes of 11.08% and charges of 41.71%.

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From the results of data processing obtained the value of long-term growth equation and short-term stabilities of local taxes and charges as follows:

Table 4. Elasticities of Local taxes and Charges

Types of PAD	The growth of long-term		Stability of short-term		
	В	$R^2$	β	μ	$R^2$
T 14	0.865	0.801	0.568	-0.430	0.186
Local taxes	(0.000)		(0.671)		
	0.756	0.055	2.704	-0.554	0.265
Local Charges	(0.000)		(0.487)		

Data of Table IV.1 show different results from the Sobel and Holcombe (1996) research taking place in United States and Ishida (2011) taking place in Japan despite using similar assessment methods. The difference in the results can be understood because of differences in taxation regulation in each country with different conditions and backgrounds. Ishida (2011) implied a major difference in tax collection in western countries with Japan in particular, namely in terms of the sensitivity of changes in tax rates. Western countries, in this case the United States, is very reactive in changing the tax rates adjusted to economic condition. In other words, the tax as a fiscal instrument has important role in improving the country's economy. Similar things are not seen in Japanese economy which changes in tax rates tend not to be sensitive to changes in economic conditions.

In Indonesia, changes in tax rates, especially local taxes tend not to change in a short time. Although in Law Number 28 Year 2009 implies limits of local taxes and charges that may be levied, in the meaning that it is not a binding benchmark for regions to set local taxes and charges rates, but in the field regional government very rarely changes the tax rates to adjust the economic condition. This is due to the length of bureaucracy of changes in local taxes and charges that must be approved by local DPRD and enacted in Local DPRD regulation. Seeing

the condition, local taxes and charges rates in Indonesia are unchanged in a short time, similar to the condition of taxation in Japan, as Ishida (2011) described in his research. Differences in research results of Sobel and Holcombe (1996) and Ishida (2011) can be seen in the following table:

Table 5.

Differences of previous research results

Researcher	Period	Location	Result		
			Tax		
				Long-run	Short-Run
Sobel dan Holcombe (1996)	1951- 1991	United State	Personal Taxable Income	High growth (1.235)	Netral (1.164)
				Low growth (0.691)	Unstable (3.369)
			Corporate Taxable Income		
			Retail Sales	Low growth (0.691)	Netral (1.039)
Ishida (2011)	1980- 2007	Japan	Prefectural tax	Low growth (0.672)	No clear
				No clear	Unstable (3.173)
			Enterprise tax		
				Low growth (0.590)	No clear
			Municipal Tax		

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Table IV.2 illustrates different results from previous research, while in Indonesia the condition is almost the same in Japan which insensitivity of changes in tax rates lead to lower tax growth compared to GRDP growth. Local taxes growth in Indonesia of 0.866 shows growth that is still under the GRDP. The low rate of growth, in addition to the insensitivity factor of rates change, is also due to the low level of tax extensification conducted by the region, as Purwanti (2009) explained that the growth of central tax in Indonesia is more dominated by the natural growth factor. In addition, stability of local taxes in short term shows a value of 0.568 but at a significance level of 0.671 which means that short-term stability of local taxes is not significant. That reinforces a statement that the process of collecting local taxes in Indonesia is more dominated by natural factor than extensification efforts of regional government.

Meanwhile, charges growth of 0.756 is also under the growth rate of GRDP. It is increasingly clear that the collection of PAD in Indonesia is still far from being expected. If seeing the short term stability of 2,704 which is far above the growth rate of GRDP gives hope that charges is very sensitive to the economic change, but at the significance of 0.487 it is clear over the  $\rho$ -value of 0.05 showing that the actual fluctuation of charges is not caused by economic change, but more on other factors such as the readiness of local DPRD regulations or other factors beyond that.

Seeing such condition, local taxes and charges are actually difficult to predict accurately, considering several factors such as extensification effort that have not been maximized by regional governments in levying taxes and charges. However, if holding on to the principle of using model to forecast the realization of taxes and charges will be found the following results:

Table 6.

RFE Comparison of Actual and model

Description	Rfe Of Taxes	Rfe Of Taxes	Rfe Of Charges	Rfe Of Charges
	2013	Model 2013	2013	Model 2013
Average Of RFE	11.08	8.76	41.71	31.94

In general, model can forecast the realization of local taxes and charges better than incremental method that has been used by regional government. RFE model of local taxes produce an average value of 8.76% less than the actual RFE of local taxes of 11.08% indicating that the financial and economic realization data proxied with GRDP can be better for forecasting own-source revenue. This is supported by the short-term stability value of 0.626 that under fluctuations of GRDP so it is easier to forecast revenue, although not significant.

Meanwhile, RFE Model of charges shows a value of 31,94% compared to RFE actual of charges of 41,71% so that it can better forecast the charges itself. RFE that is still very large, although the estimation model can be understood if looking at the short-term stability of charges of 2,704, although at an insignificant level, so that the fluctuation of charges revenue is so high and it becomes difficult to be forecasted more precisely.

# **CONCLUSIONS**

From the result of data processing that has been done, it can be concluded as follows: The growth of local taxes of provincial government in Indonesia is still under the rate of economic growth which illustrates that the increase in local taxes is more due to natural factor than the potential extensification of local taxes. Stability of local taxes on provincial government in Indonesia is smaller than the economic fluctuation so relatively stable in the short term, but not significantly indicating that local taxes revenue in the short term is not influenced by GRDP but more on other factors beyond that.

The growth of Local Charges of provincial government in Indonesia is lower than the rate of economic growth which gives ilustration of natural factor of increasing charges more dominant than extensification effort. Stability of Local charges on provincial government in Indonesia is greater than the economic fluctuations so relatively unstable in the short term in this case charges is very sensitive to respond to economic changes. However, the condition is not significant which represents that in the short term GRDP is not the main factor

charges. RFE model generally gives better result than RFE actual in 2013. RFE model of local taxes and charges show smaller results than RFE actual so in other words it can forecast revenue more accurately.

With all the limitations in this research, for further research the authors suggest: 1) This research data is partly obtained from LHP BPK-RI and Ministry of Finance. Realization of provincial government financial data obtained from the Ministry of Finance is not obtained information of audited data so it can not be known the final data on the realization of revenue. Therefore, for further research it is expected to use realization data of revenue from financial reports that have been audited by BPK-RI so as to ensure the validity and legality of data input.

1) This research uses only 1 (one) macroeconomic variable as revenue data base that is GRDP, while Keene and Thompson (2007) stated that macroeconomic factor that affects certain types of taxes may vary depending on the characteristic. For the future, further research is expected to use variation of macroeconomic variables more complex according to the nature and character of each revenue to improve the accuracy of revenue forecast. 3) Revenue in this research is proxied with local taxes and charges of provincial government calculated accumulatively regardless of local taxes and charges types. While the nature and character of each types of local taxes and charges is not necessarily the same, so we hope further research can be done partially according to the types of taxes and charges so as to provide a more detailed illustration of the growth and stability of revenue base.

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# Reconstruction of Financial Performance to Manage Gap between Value Added Intellectual Coefficient (VAICTM) and Value of Company in Banking Company Listed in Indonesia Stock Exchange

by Arfan Ikhsan

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# Reconstruction of Financial Performance to Manage Gap between Value Added Intellectual Coefficient (VAICTM) and Value of Company in Banking Company Listed in Indonesia Stock Exchange

# Yang Erprayesti<sup>1</sup>, Muhamad Yamin Nocle', Zakorin', Artin Ikhoan', Muhammar Kindristi<sup>1</sup>

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The fraction performance is an assessment of evaluation of fraction condition of extigently based on timescal trate analysis in a pivon period is success to obtain regular mate as ROE, ROA, IRSA, occulant manners, as after performance indicates. In this stody, ROA was selected to transport fractional performance of company Scientist of ROA as a proxy for the company fractional performance for some fit when all IRSA as a proxy for the company fractional performance for one for what all IRSA are a proxy for the company fractional performance because the value of IRSA are a proxy for the company fractional transportation with document for the company and the control of the company operations with the amount of investment at a section of produce their beaution (Hamati and Abdut, 2014).

# LT, The Volume of Community

The natural effections interest by indicator of stock MV is inflatored by investment opportunities. The entirence of incomme reporturings can wook a posture again about the company growth in the fatter, so a contribute a shareholder value. The community make its tast made as a management by MSDV backly. through the value of company effectively be company the company. MV with BV MV was excluded perception from investors, and other sections in an excluded perception from investors, and other section in the company accordance and terms by influence in the company of the MV MV. In the coveral contact of the term owered by assignery in other words, MV is the account that can at to good to have the event of company. The and factorizations or true acceptant in the contact of the company of the and factorization, as true acceptant above and contact the contact of the property of the and the contact of the property of the analysis of the contact of the property of the analysis of the contact of the property of the analysis of the contact of the property of the contact of the contact

# Life The Holestonskip horseen VAICON and Cleanskill Perferonses and Consume Value | III

Middleson et al. (2017) suggest that the ground the rather of capital total is deal (VARC<sup>10</sup>) the group officials the total of tempers digital, then describe VARs company (Dynica) capital or part of IC frequent a Francisco to determine the common perfections. I validation if K is a consecutible of its recommon recognition advantages, the K will contribute to company performance (Burnama and Sulfreen, 2000; Chan et al., 2001; Austriannian most) 2008).

IC is believed as pCo as important role in technolog value of resugned of from the participance. Completion that are able to efficiently action there is, the MV will improve The entriowing between 10 (VAXCPS) and fluoresol nerVentage has been demonstrated importantly by north research that has been done to recent years. Keeperth by Rada-Bellian a 128010 seasons for mource/cosed theory and charakolicys therew that shows IC issupplicately related to reultipational company performance in the USA: Kongrob by Spectrosco et al. (1913) forage me more to influence between WAKPS, namely playsted equital to like MV. of the mappany as a princy for strated to look term and diese in adjusted to be conflict the origination of VAR "Marward for ancies" performance of company see purely for 900A. Furthermore, Placette. et al. (2012), using sample of humerlaturing compariso bissel to Indonesia Souch Farhence during the potent of 25%-2008, the Exceeds a service of the Policy of the Polic control NACA) so conta financial performing, account a ReffOE. EFS, ASB, ATO, YER, CR, where the proxident for influence is provided STRS, NOTE, and ATO: While HE POWERS become dominant of sense revised financial performance in the future.

# 2.9. Diffect of IC (VAIC \*\*) on This world for for manner.

The Influence of the independent variable a VARTY we have dependent you like femous professional companies of the refer to the research board theory and associated above, these does no resume absociated as a support to a William Indiana, postured performance, by lancoughing of margin assets of femous Trains a disclosure by Winnerfelt. 1994 in Kalendenic and Training 2002, who state than

"Firm gain competitive advantage and attain repetion performance by holding, requiring and effectively using stronger areas. These seats unfairung the physical, much as well as seat anythe assembled has been separated and profinely and used by firms in garating competitive and profinely stronger."

The planes explain that a empary will achieve computation accuracy and achieve operand performance by holding, acquiring and as an emparation of achieve. There may be made in place means, physical access and image bits occur that have been individual, the emparational by communication to the process of materials occur and account of materials.

A secreting to First and Middlenes (2000), the removing he and formy explains that a samplery in perceived as a pullinders of body tangelife and organized anexts of capabilities. This theory suggests that the performance of a company wheeld to define the martifectors and official may office and integral anexts or tangelife and integral assume or tangelife and office and office and of the performance of the demandation and office and of the performance of the demandation of the definition of the demandation of the performance of the demandation of the performance of the demandation of the performance of the demandation of the demanda

In this with this theory, the statishable theory states that VA is a main administration in the mannering the performance of a community compared to the accounting predict which is imaging a transaction of return for characteristics. The theory explains that all company activities found to value account, avoidably and use of irreflectual accounts on that it modes computely is articles competitive a footage and so increase VA. Pode (1998) 1995. 2008, his saidy dist has daughly measure company to be proposed a natural in major the efficiency of the VA as a required formation page too better in the IVMLDPS. The mode components of VA N 7 Value for soon from the proposed special value. A 10 Charitan and 50 of VAA:

Empirical studies as the offer of VARC<sup>TM</sup> architectural portainment among others postureed by Pratio Bolkana (2005) the treatment to recognize support the passence-based focus; and the shanded-down tracety that, where MC is significantly to based to multiparticipal companies performing to USA. Tay, multi (2007) Roard that performing to USA. Tay, multi (2007) Roard that performance IC (VARC<sup>TM</sup>) is also positively associated with amaputar performance IC (VARC<sup>TM</sup>) is also positively associated with the company performance, for the factor. Furthermore, Element at Milliams (2007), Ultima (2007), their research shower that the performance of the performance of companies and inflamental factor on the performance of companies as South Africa.

In Federacia, the mady of IC (FOR)CPV) and its influence on the fluencial performance ion beat dose by Ultan (2007), the research conducto that here was positive officers (IC TOALCPS) to company fluencial polymetomes. Overall, his vastanch states that UE (VAOC) and ROA is the most algorithms beginner to VARCPM and company framenal performance for 3 years of composition.

More while, Senterwijsyn (2011), the rescord coordistor that there is influence between CE officiency unseeds profitability, productivity and company MN, but does not after profitability and processor of NARTY, mentioned at all (2011) blows that there is influence of NARTY, mentioned the EPS, ASE, 100, PER, UE, where the times do not do not describe the first of the control of NARTY, mentioned to the EPS, ASE, 100, PER, UE, where the times dominant influence is a world EPS, BOC, and ARD. While EE (VARE) has the trees dominant influence out transcript perfections in the story, the proposed hypothesis in a follows:

Republished D. VALC<sup>14</sup> has a positive and eigenfeate effect on fractical performance of broking companies fished on the Habitatian Reset Conformation.

# Life Principal IC (VAIC 195) on Company Value . .

The influence of Eudependent reministration (VALE\*\*) write marking. Appendicus company mater (VE) refers to subscholder decine. This souty adds in our remains to taking the form and to decine the decimal for the decimal and instance to Sept of numerical EU(404)(7\*), an elementary value.

Stationard or chose y course that evergoey to not an entire, that expension only the six area, thanked, but it must provide benefit to calculately of these at al., 190%. Photofore unrepose quantum station is married operately to refer to course VA for company in the intensity of maket-force. The resource include objected and intellectual proofs, if company is appoint of mustiging intellectual another property, then the percentage of the proofs of the proofs company value will become. It is believed to prior at a property of the property of the property.

Empirical condens on the effect of EC (CCC<sup>100</sup>) are arranged to be, among a form, producted by Ches et al. (2000), the many above that it (2000) the many above that it (2000) and the effect on programs MV and framework professionary.

Remark hits Harrys a real (1933) revents that there is authorise before a 16 (1944) with the particle, where MACA, and SPCA is WARPS are represent that has a significant effect, whereas WARP has integrable at 1800, these a significant effect which has made at an according between WARPS and company value has a regretical officer as company, value as a princy for PSV, but not vigorificantly affect FER.

Furthermore, coses and he Wernston (2014) which that there is no entire, inflamence between IC disclosure (WECEMS and beautiful preferences and propey for ROA. The endangle is not able to prove direct before exist C. Club in and (WACEM) as introduced range on a provey for MOV, but it is able to prove that foregoing preferences as a provey for MOV, but it is able to prove that foregoing preferences as a provey for SCAL being able to reason the relationship between IC directions (WAICEM) and assumenty to less as a provey for MOVA.

In line with Downsend become such as (2014), their research by each than 10 (VAA). The significantly offers for acted performance as a probability suggestionally of the structure of the company as in probability in the indirect influence in continuous as a probability to the indirect influence in continuous as a probability Sectoryone at al. (2012) warms than there is influence testwood VAIC. The context physical sectoryone to the context of the contex

Hypotherics 2: VALCY\* (see if each offset on aproposy; rating to beat ing procession; thank matter buttoms as Sinck Englange. Hyperagails 3: VALC<sup>TM</sup> has indirect office on company 5 also forward financial performance to impressing surplus or backing memorian liveston the following Stock Freehouse.

Firm By those sheet, the execution competal flumework is discribed to Paper I.

# 3. RESEARCH METHORS

The population or this made is all harvery compacted fraction becomes Social Exchange (IEEE) to \$400, 2019, 2019, 2012, 2012, and 2011. The morphing technique to purpose a surging medical Photocores subclong to a surging to photogram with partial considerations also satisfied sampling term (Artista, 2011). In this study content to the ware of the sampling abundance of the way

- Burking response beloff in Indonesia Stock Suchange in 2006-2016.
- Ratifully compared that provided compatibilities to his pared report or the end of each major in the period of Construction.
- Bentaling companion takens thereof contractivity treated over leaking rates a further contractive made correct.
- This to separate interested and had complete then released to the trackets.

The problem in this research true formulates; jets a strendhase or model, which is a model formulation for two depointed variables and discorded to various every frequential to two depointed variables and discorded to various every frequential to the original condition. The depointed was also wish to the true property to the true of make time property in rate as a depoint of the property of the true property of the true of the true of the true property of the true of the true of the property of the true of true of the true of true of the true of true of true of the true of tr

VANCE\*\* referred in this insection is the mathead of minimum in the discipled by Paties (1996; 1996; 1996; this mathead is discipled by provide inflammation about value transmitted officially of this gibbs needs and intemplate spects owned by company. VARCE\*\* is a company that constant in physical papers of VA that is owned by a sumpany that constant in physical papers (VACCE). HE (VACCE), and SC (supposed BTVS) are potential states, which is no concept man have lessed and adopted by Piner and WA to be (1995). Manualist (2004). Chem et al., (2004). The view of (2004). The Consoderious and attached man degree of VACCE\*\* are no followers.

Stage very Columbrany VA - VA is pulpointed as the difference forecast OCCOMM and ONE-Tributa, 1999, Value, 2003, VA (e)Orad in this thirty can be made standards for Eddoming forecasts.

VARCES VARCE STATE STATE

Figure 11 Proceeds assequent franchisch

VAHOR-BOILDIA.

Where,

VA - Willie addition

DF - Chapter code

EC a Employed inter-

D. Desertions

As American

Name were Extending SNCA - WEST reliment to this many in transportal bound on We ensured by physical papers. This ratio there are relative made by made and in C.B to VA regardation (P.A., 1989) Uses 1970) Halos bounded and of the field ready formula.

Section 1

VACA - To be added as its temployed. The sette of VA to UE NA - To be when

CR in Caption of aphroyali Aural MacPanill Legist 5, not more as

Third stop: Calculating XXHU - VAHU indicated in this early is missioned hance on V4 criated by HC (NAHL). WHILI discuss how much V4 and he granted by Raelle court at labor. This ratio shows by assisting are made by accharged hereeval in HL towards VA organization (Polic, 1999; Clien, 1997). It can be missiplied with the 60km/mm formula:

$$V(x(t)) = \frac{Q(x)}{4\pi c}$$

Marie .

SAMU - Value without harmon poping. The ratio of SW to HC

NA - Salar added

Htt - Harvier organic Personnel depreners

Stage from Palendoning STVA SC referred to this entiry in Biometric based on VA consted by SC (SVVA). This retrimaterials the amount of SC model for produce 3 region of VA and to at latituding of the success of SC to refer equation (P. Jul 1989). Ulara, 2007). It pays be palendonic with the Collecting December.

$$STNA = \frac{SP}{VA}$$

特别的

STVX is Summaria repital value which The note of XC to VII.

SC - Neumani model, VA-440

VAV - Statistic address.

Single Dec. Colorateing WEICT\* - VOECT\* indicates organization professors a capabilities that was also be contracted as been are performance malaceter. VAECT\* in the case of the three performance malaceter. VAECT and STAN-Onlin. 1995. Clear, 2007. Discrete calculated with the following degradar.

William .

SAICTH - Value assist mathematical coefficient

VACA = 'Class adder capital manip sect.'

VASIC - Value added liaman capital-

WTVAc+Structural product allowedged.

While BOA is allowed to measure theorem performance of supposes. Plantage performance of supposes, Francial performance was set in first dependent reaching and also defined as sometime the resolution independent variable (VEXT\*\*), with coincide of unequipment residely. The selection of BOA is a proof for the ampaire flowers performance because ROA is a proof for the about a suppose for a suppose to the about a performance because ROA is a resolution for about a suppose for the about a section of another a people. The reside ampaire bank about a suppose for the about the proof of the about a people. The residence of the definition of the about a people. The residence of the definition of the about a people. The residence of the definition of the about a people of the about a people

In this study, the actual dependent variable is write all company as a proxy for MSEA. SIGNA shows the sacre of company that to strained by companying the company MSE with RALMAN in the march perception from the company and in annally softens company stable MSEA of the perception of company and in annally softens company stable MSEA of the company stable MSEA of the company stable MSEA of the company and company to the MSEA of the company of the perception.

Wheel,

Multitratus (MV) - Specy press at you-out

Heads trained (BM); - Total property - Histophishing shares:

Dista preserving, reprined model in this positive path asserted that is, is the based model would be analyzed the path to save acting the prenegation of search to be seen at the path of search to be seen at path analyses because it of specific constructs make between the restriction of path analyses because it of specific constructs make between the search or substituted as forced as to be substituted as forced as a fact, or the search of constituted as forced as a fact, or the search of constituted.

To one how the mercey demand to interpret the modile is well as to too the hyperthone, we must descript or nealysts. Then, we conside to the hyperthone, we must descript or nealysts. Then, we conside to the assumement model, where, overall model testing, structural model testing and considerably turnstites observed testing. To first leads for muly-on process, asserted whether applications program for heads for many verticated, assert yellows blackets of frequent for heads for many verticated and Analysis blackets of Structure (AMICO) recommend.

In this made, push products was applied to examine variable or those with particle by antig particles there the MATChellannia Stack third topology or the artists on all hyperbod of observation in 5 mags. Story in the data particle, as follows:

Designing a model femal as theoretical and as guited studies.
 Design the models, it and cannot the extension of discust and malitizat effects of motoproduct variables on dependent variables the control of the control of a square the store of the control of the cont

and the discount radious offices, VARCH on 8004 and MEN. The condet in expressed in the cognition:

BOSHWACHE HE

\$6.000 - \$0.000 - \$10.000

Whater.

BOAC+ Boxes, procure at particula-

McDV1 - Minker to book came at period's

VARCING - Virtus added intelligened coefficient to period?

E. E. C. S. Regionanti coefficiente

- 2. Describbing the product to diagram.
- Triating the checked assumption. So makes the district parties and your district to leave processes when on, as he must be the most your first processes of data community and most resident.
- A serior region production and the model. The modely production of an administrative production and otherwise, comparating that bearing parameters with a description and of Yaghayas observe in Table 1 (Production 22), and Table 1.
- Integrating the socials of the excisional term that here been contactors.
- 6. Confirming the model with com-

# 4. HENCLES AND DESCESSION

# 4.1. An Overview of Research Object

This study used heriting industry fixed to indonesis Studie Enchange is the reverse objects. Data their Back Indonesis that efficielly politicated in 1014 the worths the seventral federation. finiting parales, of etc. types of constructed faults with a text of 100 family (Burk distribution, 2007), committy Limited family translate, BUSN peoples authorized (Birmana, BUSN peoples) and parales, BUSN peoples (Birmana), and floor or bush (10 families).

# 4.2. Orsertains of Research Variables .

E.S.Y. Parameter characteristics, of A.S.E.

Yarhables-description of NA KTM pair he year in the Table 1.

The relation of "ANT" indicates the argumentative territorium abdition as for easied VACA, WHILL, and KINA, Based on Table 3, the value of VACA in the best ling is dealer, in Indicates Stock Backways was quity to philately including to dealer, in Indicates Stock Backways was quity to philately across a CESS 2013. The revenge value of VARC\*\* is 2004 was 2.69 and in 2013 recent 5.75, which is the highest decrease occurred in 2012 there in 1.29. The relate of VARC\*\* of back distriction the Stock Containing ones up to good and it seems to be under period of 2009-2013. There are 2 femile that find goes high value of COSC\*\* in the period of 2009-2013, the Dank of Victoria International Title (DATC) which reacted a value of 4.69 at 2011, Bank Control Asia Title (DBC A) which reacted a value of 4.69 at 2011, Bank Control Asia Title (DBC A) which reacted a reacted 4.69 at 2011, Bank Control Asia Title (DBC A) which reacted a reacted 4.69 at 2011, Bank Control Asia Title (DBC A) which to reacted a reacted 4.69 at 2011, Bank Disable (Personal Title COSC).

Table 1. Geodern-of-ht indices

Gird non-O'Broaden Colorado	Constitution
T-Company	18.16
Significations stimbuls little	18.06
ANNIA.	145,790
1001	100.00
Children	64.60
Chris	14 704
THE	15.90

Table 2: Calculation result of value added intellectual mellicities (VAETN) banking leaburity finant in indirectly mock, exchange your 2009-2017

Lab	billion		Name of the last Agreement and States (1988)			20
E and		2901	18.0	4011	184	3863
1409	Self-Segrid Extrema Property Sta-	1.00	2.14	3.3.7	3.30	2.45
1000	Bulle Kally & Indonesia (Personal Title	7.10	9.04	4.35	4.30	4.77
ADDOM:	Acid. Juliulipai Scena, belowini (Kimari Titi)	3.49	3.10	3.35	3.30	3.44
100/06/1	Marcia, Milandia, effort place (1784)	4.00	4.48	4.34	4.35	934
ACC03	Build Rodget Recovered Apoleogy (TW)	3.45	0.00	2.34	123.3	236
BINCOL	Ward, Coping Endocraria, 196	3.96	2.00462	3.75	0.000	3.36
3646.62	Start Chemina Ratural His	2.78	22,986	3.82	12.20	236
48406	Bank Commit Asse THC	4:39	4.48	430	4.44	4.66
1000	Rank Robinson Title	30.35	1,020	3.60	100	3.31
10.00	Band November of Parelysingson This	2.08	1000	2.60	100000	2.07
Address .	than de El Sanar form Brokesse also, Well	2.76	1704046.1	331	Add	2,63
ARREST .	Book Flagger facts. Title.	2.64	2.00	3.57	11.3.66	236
806005	Barra CTMB Armer TM	3.36	1.000	4.00	4.30	500
607.8%	Bard-Tohong on Policinal National This	2.30	1,8500	273.0	77.60	0.36
10000	Barrie Victoria Objetiva const. This.	3.66	10 March 2017	14.20	10.00	4.00
19090	Bank string Drieks Esterman and TW	3.00	23.44	2.25	142	0.98
564700	Back Manageria Introductional Title	2.35	138	\$90	1940	577
VICTOR:	Bank White Kiminia Exercise and His.	3-60	6.72	3.2%	3:22	2.86
MODGA	Beck Mygs Title	2.11	3.37	3.33	131	2.46
ACCUSE!	Box OCBC SSSP Bu	2.78	1.000	3.00	2.64	2001
TELL	Man	2.50	32.08	3.21	334	3.36
	M. of the	1.00	6.72	336	3.34	2.46
	Gardenov	4.9	(4.56)	3.30	1.00	4.76

Acres | Marriage |

This, which reached 4.50 in 2013, NYsle the Invest value reached by God Word. Kombins International Fish J. St. 15.2009.

# 4.Z.Z. Committee and protection of 4004.

Variable description of MDA can be seen in fin Table 3:

The right and 100A states the totals ability to geomic points bound within states and the computer level south. Based on Table 4, the

metage halian of POTA experienced an increase in the period 2009-2003, in 2009 assessable to 1,79% and in 2013 must be 2,50%, white thirtigrows because achieved in 2003 assessments 2,45%. The legions 100A value during the period 2009-2013 rate and by Black Rate/or Indexessal Persons (Title 2003), which is 2009 assessments to 3,75%, is 2018 at 4,54%, to 2011 of 4,70%, in 2012 at 5,45%, and is 2010 at 5,00%. While the lowest BEA value in 2009 and in 2013 at the val by think Balance indexests. Against 2008, 18418435, emportant

Table 3x Calculation results of return countries (RCCC) of harding technory that its reductive duck exchange year 2000-2019

Code	William		Name of the own	riccion (mf)	BURNESS OF THE	0.00
	The Company of the Co	280	28.0	2033		286.3
DESCRIPTION OF THE PERSON OF T	Build Regions budiances of courses That	3.70	2.9%	2700	290	3.49
10000	Bard Bisking becomes Pyragin Thy	3.75	4.68	1.9%	4.75	8.64
NOTE:	Bert, Tabusque Nogue had touck (France) Title	1.87	3.06	200	3.94	3.79
1969.1	Bank Marghal (Powers ) Title	2.66	1.06	3.56	1.34	3.70 3.74 3.80
4/5/201	Barth Radyah belimmin Agreed out This.	5000	847	334	4.830	3,7%
BACA :	But Capital Indonesia This	3.4%	676	6.5%	4.32	30,900
TACK	Burn Differens Maleria This	135	1.00	11.472	13000	3,36
BESCA.	Box Greent Arts Titl.	3.40	1,789	3.00	1.68	3.60
BURT	Social Debugue Telli	1.46	11.14860	330	5.60 1.00	5.0
MORP	Back Results in Frenhest and Till.	11/25	6.00	9300		0.00
SQUARE.	Burtle Digita has Biology sin, Bob.	3.85	1.567	3.34	5.6A	3340
RINGA.	Wash Riggs Are The	2.00	1.00	434	12477	2.65
SPOLY .	Bank T3M3 Nam TM	2.00	- 2.00	235	3.34	2.76
MINE	Harth, Tollowing on Principles Vinciples (1976)	3.49	4.00	0.40	4.79	3.60
MARKET TO SERVICE	Auch Version Stevens treet the	3.39	0.000	3,60	1.17	5399
DOM:	Barrie, Agrees (Arabic Emperors, and This.	0.66	6.0	6.75	1000	6.39
MANA.	Maria Missasalia Terrenadorud TM:	0.00	10.00	2.00	(2003)	2.33
METRIC	Black White Company bases to read The	2000	8	5,700	2.00	1.16
MERCIA	Barris Mirgas TMs	1000	1.00	8.77	2000	8.72
10/30	Bank (ICSE) WIEPTING	3.90	136	3094	5.3(29)	9.23
	Short	3.79	2.000	2.25	2.46	2.39
	University	6.16	0.00	6.44	0.066	2.39 8.79
	Algorithms	3.99	34.64	430	6.46	3.63

Name and Distance

Table 4: Calculation results of market to book value (MBV) or hanking form in indonesia stack cachings year 2009-2013.

Contract Contract	the factor of the contract of		STREET, SQUARE	Market to help parent little.		
		1 mm	188	Levi	1000	3903
HBCS .	Back Negaric Indonesia (Persona Stri.	2.56	(2.10)	337	1.79	4.64
1000	Best Kidow Incomes (Person) Dis-	3-16	2.70	3.14	2.04	2.69
98075 ·	83.4 Telepope Alegina balancina Present Title	2.46	7.10	3.85	179,460	90,000
(40)	Seria Microbin (Persona) (1906)	7 15	16.29-1	3.34	3.47	3.46
A80001	Barri, Bullow Indonesia Agramage 1918	2.60	The contract of	2.43	1.04	5.64
NACO:	Naval Trape of Bullionning The	8.95	6188	3(19)	CHRY	3,56
BULL I	Berli Eliconna Ballerja This	2.38	3.99	3.33	1.70	337
10000	Barria Tarotto di Audo Tela	3.788	2.00 4.00	4580	14.700	3.30
DEGE .	Bank Pubesia TIA	3030	7.7466	1006	1.00	3091
THE SECTION AND ADDRESS OF THE PARTY OF THE	Acid Squarters Perstourage T16	0.07	677	200	3.300	6.7%
0.000	Bulk Danson Intoqui, 198-	2.37	1.00	1.35	4.00	7.00
DAILY.	New Especiation This	3.90	100-100	6667	7.1000	4568
889GA	Box CDEF Visio TM	0.32	3.355	0.67	1020	1000
DOM:	Bank, Managire Personal Stational PDA	2.36	3.1/2 1.58	3.03	1.60	233
BOOK .	Book Victions Internet and The	8.75	\$100	10.00	1000	9.54
DOW	"Marie Addise Dealler Brensman read Title.	2.39	100000	56.00	5.49	6.44
MONOR	- Bara Masagada Taramsassul Tak	30.35	2.7%	2.60	2000	4.99
MODEL	Back White Keet's or Lancanieral Tile.	0.02	0.090	2.00	15.00 h	10,90
MARCA	Built Megh Thi	2.56	1.54	240	1,93	200
light .	BANK DICHESTON THE	1.86	2.446	3.16	0.046	3,765
	Manager Control of the Control	2.02	210	1.31	7.00	5.70
	Mission	X-6	80.00	0.60	6.00	836
	Majarin	4.10	14.00	4.60	5/9	436

Service State or would

Figure 1. Period multicrean reside of the pulpation of Reviews. Conjugate a state of anti-polarity residents.

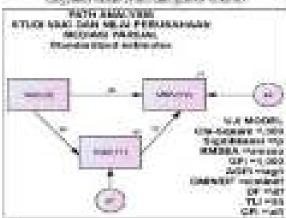
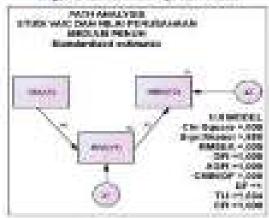


Fig. 10.2. For it and delivery would all the orbit condition for when an appearing made takes and re-alogorous more dates.



6 19% in 2009 and 0.67% in 2014 Cares in 2011, the law on 180A to be at 0.64% as however by the Health appeal belows as 180,00A CA). We assume at 1810 the toward by North and Capital Building of the Paris. Arthur Stephen Determinance Total (1979). Microwitche, in 2004 the however both and respect to Health Stephen Determinance Total (1979). Microwitche, in 2004 the however both and respective Health Stephen Total (1980).

# 4 T. T. Harvard le allevantations of 45 NF

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# A.A. Greensk Height.

# # 1/1 / Arrangement of Ferrage of Completes In the Arrange

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Name the process and his has addressed outlined both Make at the class of the C. Battlesse with

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## 4.3.7. Published Visit on MARY

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# ALTA BOARD TO BE

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# Wheeler

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# RESOLD TRANSPORTED AND PROPERTY IN COLUMN TO SEE A PROPERTY OF THE PROPERTY OF

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The indiversion of VART\*\* as letter fittings, 800, gives positive and algorithms speaks was regarded to coefficient value of 8.965. These possess were observed from the electric State of VART\* on endogenous variable, 80 A of 2.656. Furthermore, 6 and of 8.656 of 800 coefficient of 800 coefficient with the coefficient of 800 coefficient from the coefficient approximate relationship, there is combe declared that VALC\*\* by part in conducting the service of 800 coefficient from the coefficient of 800 coefficient from the service of 800 coefficient from the service of 800 coefficient from the service of 800 coefficient from the 800 coefficient

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# 5. CONCLUSIONS AND RECOMMENDATIONS

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- O is expected from the involves in a notating company professional to considerable VA crossed by the company.
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Reconstruction of Financial Performance to Manage Gap between Value Added Intellectual Coefficient (VAICTM) and Value of Company in Banking Company Listed in Indonesia Stock Exchange

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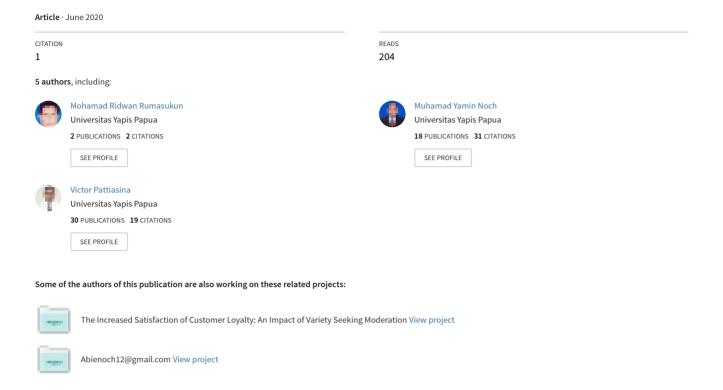
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# Talent Development & Excellence Structural Model of Company Stock Return in Basic and Chemical Industries: Impact of Profitability, Market Value, Liquidity and Leverage



# Structural Model of Company Stock Return in Basic and Chemical Industries: Impact of Profitability, Market Value, Liquidity and Leverage

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<sup>1,2,3</sup>Universitas Yapis, Papua, Indonesia; <sup>4</sup>Universitas Negeri Medan Indonesia; <sup>5</sup>Politeknik Negeri Kupang, Indonesia
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# Abstract

This study aims to analyze the partial and simultaneous influence of profitability, market value and leverage on the stock market returns in primary industrial and chemical companies listed on the Indonesian Stock Exchange in 2019. This is exploratory research that applied the purposive technique for collecting data. Data were analyzed using SEM Amos version 24 and hypothesis tests. The analysis shows that profitability, market value and leverage, both partially and simultaneously, have no significant effect on stock market returns. Future studies will pay more attention to the size of the business, the number of financial ratios and the expansion of observation units and other factors such as interest rates, inflation rates and changes in exchange rates.

**Keywords**: stock return, profitability, market value, leverage, primary and industry companies

# A. Introduction

Data from the Indonesia Stock Exchange (ISE), in 2019, shows that the primary industry sector has the potential to regain the performance of sectoral indices with the achievement of an increase of 24.01% among the nine existing areas (Yazid Muamar, 2019). In addition to the primary industry, the chemical industry also experienced a definite increase (Ika Puspitasari, 2019); the primary industrial and chemical sectors were still able to increase when the Composite Stock Price Index corrected 2.95% due to the impact of the trade war between the United States and China. This data is also strengthened by the statements of Azizah Nur Alfi, (2019) and Benedicta Prima, (2019), arguing that shares in the basic and chemical industry sectors have increased higher than other sectors. One indicator used to analyze the increase in shares is the level of stock returns as expressed by Aditya Perdana Putranto, (2019); if based on its highest return, the basic industrial and chemical sectors are superior to other sectors (Nadya Zul El Nuha, 2019).

However, the reality is that not all companies in the sector have increased. As an example; 2 companies in the basic and chemical industry sector, namely PT Ashahimas Flat Glass Tbk (AMGF) which operates in the glass business unit and P.T. Semen Baturaja Persero Tbk (SMBR) which operates as a cement producer has alarming financial statements. AMFG's financial report shows a loss, the amount of losses has increased three times in the range of -85.19% and slightly subsided in 2018, which is -82.89%. While SMBR is also inevitable, the loss continues in the range of -43.39% and again surged in 2018, which is -48.12% (Brama, 2019). This is due to the company's inability to obtain profits so that it is unable to maintain stock prices (Victor Pattiasina, Fajar Rina Sejati, Yohanes Cores Seralurin, 2018).

Meanwhile, during the first two weeks in May 2019, all shares of cement listed companies listed on the Indonesia Stock Exchange compact experienced weakening. This was allegedly due to the disappointment of market participants. As from 1 May 2019 - 10 May 2019, the shares of P.T. Semen Indonesia (Persero) Tbk. (SMGR) fell 17.4%, while the shares of PT Indocement Tunggal Prakarsa Tbk. (INTP) and PT Solusi Bangun Indonesia Tbk. (SMCB) decreased by 11.6% and 10.1%

respectively. Meanwhile, shares of P.T. Semen Baturaja (Persero) Tbk. (SMBR) fell 26.5%. Meanwhile, the negative sentiment affecting investors' selling action is the uncertain global economic conditions, especially the US-China trade tension (Ridwan, 2019). With the selling action carried out by investors will have an impact on declining market value, the selling action is triggered by investor panic over the possibility of not getting a return, and this is normal because investors always expect high-level investment returns from any company.

Stock returns are basically influenced by several factors, including; profitability, market value, liquidity, and leverage. Profitability ratios provide a measure of the effectiveness of a company's management, as indicated by the profits generated from sales and revenue. One of them is Return On Assets (ROA) is the ratio between profit after-tax or net income after tax to total assets. Increasing ROA illustrates the company's better performance and shareholders will benefit from the increasing dividends received, or rising stock prices and stock returns. Aryaningsih et al. (2018); The Return on Assets (ROA) variable partially has a positive and significant effect on stock returns; different results are shown Febrioni (2016); Return On Assets (ROA) has no impact on stock returns.

Market Value is the second factor that affects stock returns. Price Earnings Ratio (PER) is the ratio of the ratio between the share price to the income of each share. PER information indicates the amount of rupiah that must be paid by investors to obtain one rupiah of company earnings. The higher the PER suggests the prospect of a stock price being valued higher by investors on earnings per share, so the higher PER also indicates the more expensive the shares are on the earnings per share (Cf. Fanggidae, 2019). Increased stock prices will be responded positively by investors because they will get a capital gain which is one component of stock returns. This statement is supported by research conducted by Sodikin & Wuldani (2016), which shows that PER has a positive effect on stock returns. Soedjatmiko et al. (2018) show that PER has no impact on stock returns.

# **B.** Theoretical Review and Research Hypotheses

# Positive Accounting Theory

Positive accounting theory is a theory that gives managers the freedom to choose the right accounting method based on the uncertainty of economic events that may be faced by the company in the coming year. Therefore, the choice of accounting methods by managers is not limited because managers are given the freedom to choose the accounting method that suits them—company, (Oktyawati & Agustia, 2014).

Watts and Zimmerman (1990) revealed three hypotheses regarding positive accounting theory, namely (a) Bonus Hypothesis Plan. Management chose an accounting method that maximizes its utility, which is a high bonus; (b) Debt Covenant Hypothesis. The higher the company's debt ratio, the company manager will tend to choose accounting methods that have the effect of increasing profits; and (c) Political Cost Hypothesis. In general, the larger the company, the higher the company chooses an accounting method that decreases profits because of the higher the benefit, the greater the community's demands on the company.

# Stock returns

Stock returns are the results obtained from an investment of funds that have been invested that can be enjoyed by investors (Sutriani, 2014). Returns can be realized returns that are returned that have occurred, calculated based on historical data and used to measure company performance. The expected rate of return is the return that the investor will receive from his investment in the company (issuer) in the future. An investor will expect a certain return in the future, but if the investment he has done is completed, the investor will get a realized return.

# **Profitability**

Profitability is the ability of the company to make a profit in relation to the sale of total assets and equity (Oroh et al., 2019). Profitability ratios are used to measure the level of rewards or gains (profits) compared to sales or assets, measuring how much the company's ability to make profits in

relation to sales, assets or profit and own capital (Sujarweni, 2019). Profitability is a fundamental aspect of the company, because in addition to providing a great attraction for investors who will invest their funds in the company as well as a measure of the effectiveness and efficiency of using all the resources that are in the company's operational processes.

One of the ratios used to determine profitability is Return On Assets (ROA). ROA is a ratio that shows the results (return) of the total assets used in the company. Return On Assets is a ratio used to measure the ability of capital invested in total assets to generate net profits (Sujarweni, 2019). Several studies conducted such as; Febrioni (2016) and Soedjatmiko et al. (2018); profitability has no effect on stock returns, but these results are different from Rahyuda & Puspitadewi (2016); Aryaningsih et al. (2018); Dewi & Sudiartha (2019) and Oroh et al. (2019) profitability proxied by ROA partially has a positive effect on stock returns. The research hypothesis proposed is as follows;

H1; Profitability has a positive effect on stock returns.

# Market Value

Market Value is the price of goods or securities, as indicated by the market offer. Market value also shows the amount of rupiah that must be paid by investors to get one rupiah of the company's earnings (profits) reported (Putranto & Darmawan, 2018). The ratio used to determine market value is Price Earning Ratio (PER). Price Earning Ratio (PER) is the ratio used to calculate the rate of return on capital invested in a stock.

The higher the PER indicates the prospect of stock prices being valued the higher by investors on earnings/shares, the higher PER indicates the more expensive shares against earnings/shares. Increased stock prices will be responded positively by investors because investors will get capital gains which are stock returns. Rahyuda & Puspitadewi study results (2016); Sodikin & Wuldani (2016) and Soedjatmiko et al. (2018) states that PER has a positive effect on stock returns. The research hypothesis proposed is as follows;

H2; Market value has a positive effect on stock returns.

# Liquidity

The liquidity ratio is used to measure the company's ability to meet short-term financial obligations in the form of short-term debts as indicated by the size of current assets (Sujarweni, 2019). One of the ratios used to measure the level of liquidity is the Current ratio as the ratio between the value of current assets and current short-term debt. Thus, a high current ratio shows that the company can meet its obligations or short-term debt by using existing assets so that in terms of shareholders have confidence in the company's ability to have a high level of current ratio. Increased liquidity of a company encourages an increase in the company's stock price and will provide returns for traders and investors in the capital market. Previous studies by; I Made Gunartha Dwi Putra, and I Made Dana, (2016); Putu Eka Dianita Marvilianti Dewi, (2016) and Dewi & Sudiartha (2019) prove that liquidity affects stock returns. The research hypothesis proposed is as follows;

H3; Liquidity has a positive effect on stock returns.

# Leverage

Leverage is a ratio used to measure how much assets a company has comes from debt or capital so that this ratio can determine the company's position and obligations that are fixed to other parties and balance the value of fixed assets with existing capital (Oroh et al., 2019). There are two types of leverage, namely operating leverage and financial leverage. Operating leverage, the use of assets with fixed costs expects the revenue obtained to cover fixed costs and variable costs. In

contrast, in financial leverage, the use of funds with fixed expenses is expected to increase earnings per share.

One of the ratios used to determine leverage is Debt to Equity Ratio (DER). DER is a comparison between debt and equity in company funding and shows the ability of the company's capital to meet all its obligations (Sujarweni, 2019). Companies with high leverage ratios can have an impact on the emergence of large financial risks, but also have a great opportunity to generate high profits so that it will increase the company's stock return (Alviansyah et al., 2018). The study of Made Gunartha Dwi Putra and I Made Dana, (2016) and Rahmawati (2017) revealed that DER has a significant effect on stock returns. The research hypothesis proposed is as follows;

H4; Leverage has a positive effect on stock returns.

# C. Research Method

It was an explanatory research on the effect of profitability, market value, liquidity and leverage on stock returns. Data is collected and obtained through the website access www.idx.co.id relating to financial statements of companies in the basic industrial and chemical sectors for the 2014-2017 period. The population was 71 companies, the withdrawal of a sample of 14 companies using purposive sampling techniques with the following criteria; 1) Companies listing on the IDX for the period 2014-2017; 2) Companies that include an independent auditor's report together with the audited financial statements for the 2014-2017 period; and 3) Companies that have complete financial data related to research variables in the 2014-2017 period. Data were analyzed using structural equation models to answer hypotheses.

# D. Results and Discussion

# Normality Test Results

Data normality test in research conducted on univariate and multivariate data. Univariate sees the value of c.r in skew is expected to be in the range of -2.58 to 2.58, but if it is outside this number, it can be tolerated if the multivariate value is still around -2.58 to 2.58. The normality test data is presented in Table 1 below.

Table 1. Testing Data Normality

Variable	skew	c.r.	kurtosis	c.r.
CR	.688	2.101	106	163
PER	196	598	271	414
DER	710	-2.169	2.904	4.436
ROA	303	926	.524	.800
Return	.059	.179	1.661	2.537
Multivariate			3.874	1.732

Source: Output SEM Amos (2019)

It can be seen that the value of c.r in skew for all variables is still in the range of -2.58 to 2.58, univariate normal data. The multivariate value is 1,732, which is still in the range of -2.58 to 2.58. Then it can be concluded that the data in this study are normally distributed.

# **Outliers Test Results**

Outliers test, looking at multivariate outliers, is performed using Mahalanobis distance based on the chi-square value on free degrees of the number of indicators at the significance level of 0.001. Outliers test results are presented in Table 2 below.

Table 2. Testing Data Outliers

Table 2. Testing Data Outliers				
Observation number	Mahalanobis d-squared	р2		
20	12.816	.760		
14	12.560	.465		
46	11.803	.352		
13	11.493	.213		
38	11.385	.101		
15	11.332	.040		
16	9.810	.164		
11	9.102	.232		
39	8.822	.199		
31	8.728	.131		
47	8.492	.109		
5	8.237	.098		
23	8.209	.055		
21	7.902	.059		
30	7.639	.060		
26	7.426	.056		
45	7.426	.029		
49	6.614	.145		
19	6.284	.197		
18	5.944	.274		
55	5.471	.464		
33	5.450	.371		
24	5.414	.294		
22	5.168	.354		
50	5.041	.341		
34	4.980	.286		
32	4.809	.305		
37	4.723	.271		
12	4.604	.260		
9	4.480	.254		
35	4.095	.449		
6	3.350	.904		
1	3.279	.886		
28	3.007	.947		
52	2.703	.984		
10	2.534	.990		
2	2.532	.980		
56	2.504	.968		
8	2.322	.981		
29	2.269	.973		
25	1.940	.996		
40	1.913	.992		
54	1.880	.985		
17	1.816	.980		
48	1.787	.964		
36	1.662	.968		

Observation number	Mahalanobis d-squared	<i>p2</i>
51	1.426	.989
3	1.347	.985
43	1.336	.963
4	1.320	.920
27	1.021	.978
41	.589	1.000
53	.409	1.000
7	.324	.999
42	.280	.994
44	.195	.955

With several indicators of 5 (five) indicators at the significance of 0.001, a chi-square value of 20,515 was obtained. Based on the outliers testing table, it appears that the Mahalanobis distance value of 12,816 is smaller than the chi-square value of 20,515. Then it can be concluded that the data has been free from the problem of outliers.

# Multicollinearity Test Results

A good regression model should not occur the correlation between independent variables (Manafe & Setyorini, 2019). To test the problem of Multicollinearity, it can be seen from the correlation of the independent variable. If there is a correlation of more than 0.80, then there is Multicollinearity. The results of multicollinearity testing are presented in Figure 1 below.

Figure 1. Testing for Multicollinearity

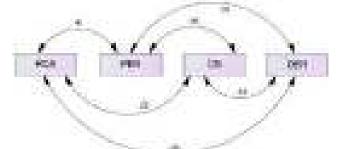


Figure 1 shows the correlation value between independent variables, the correlation value is not greater than 0.80, so there is no multicollinearity problem in this research data. Another way to detect the presence or the absence of multicollinearity symptoms is by examining at the determinant of sample covariance matrix values. If it is far from zero, there is no multicollinearity problem. The determinant of the sample covariance matrix is shown at a value of 791,780, and this number is very far from zero, it can be concluded that there is no problem of Multicollinearity in the data of this study.

# Hypothesis test

# Confirmatory Factor Analysis (CFA)

The data analysis technique used to answer the problem and achieve the objectives of this study is the analysis of Structural Equation Modeling (SEM) with a regression equation without intercepts (constants). The purpose of partial effect testing uses Structural Equation Modeling (SEM) analysis to test the effect of Profitability, Market Value, Liquidity, and Leverage on Stock Returns. Structural Equation Modeling (SEM) analysis testing is performed with the help of Amos SEM Software version 24. It can be seen in the following Confirmatory Factor Analysis (CFA) test table.

Table 3. Confirmatory Factor Analysis Results

		Estimate
Return <	ROA	.192
Return <	PER	156
Return <	DER	036
Return <	CR	146

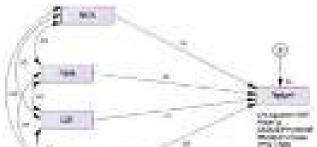
Based on the results of the confirmatory factor analysis table above, the Structural Equation Modeling (SEM) equation of research can be explained as follows.

$$Return = 0.192 \ ROA - 0.156 \ PER - 0.036 \ CR - 0.146 \ DER + C$$

Based on the Structural Equation Modeling (SEM) equation, it can be explained that; (a) Profitability Coefficient (ROA) of 0.192 indicates that each increase in profitability (ROA) of one unit will result in an increase in Stock Return by the value of the profitability coefficient (ROA) of 0.192; (b) Market Value Coefficient (PER) of -0.156 indicates that each increase in Market Value (PER) of one unit will result in a decrease in Stock Return by a Market Value coefficient (PER) of -0.156; (c) Liquidity regression coefficient (C.R.) of -0.036 indicates that each increase in Liquidity (C.R.) of one unit will result in a decrease in Stock Return by the value of the Liquidity coefficient (C.R.) of -0.036; (d) The Leverage Regression Coefficient (DER) of -0.146 indicates that each increase in Leverage (DER) of one unit will result in a decrease in Stock Return by the value of the Leverage coefficient (DER) of -0.146.

Next, Figure 2 below shows a model with a CFA value in rounding two digits behind the comma. However, the model presented still has weaknesses in the assumption of model conformity (Goodness of Fit), i.e. no numbers appear in the suitability index of the model described.

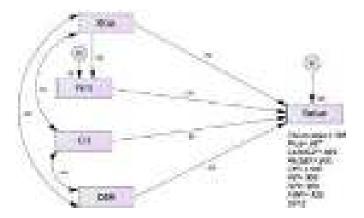
Figure 2. Full Model of Research Results



The model modification is performed. A structural model that can be statistically proven fit and between variables has a significant relationship; it is not then said to be the single best model (Santoso, 2018). In other words, it is more precisely said that the model is one of the many possible forms of other models that can be statistically accepted. Santoso (2018) explains that an SEM model can be modified. The purpose of the modification is to see whether the modifications made can reduce the value of Chi-Square; as is known the smaller the Chi-Square value indicates, the more fit the model is with existing data.

Hair et al. (2006); Competing Modeling Strategy, intended to compare the model with several alternative models, to see which model is the best fit with existing data, including in this way is to add a variable to the existing model. Modification of the model is done by making the Price Earning Ratio the focus of modification, which is to draw a constructed line from Return On Assets to Price Earning Ratio. After modifying the model, the value of goodness of fit looks like the following picture.

Figure.3 Full Model Modification



# Regression Weight Analysis

Hypothesis testing in this study uses the Lambda test seen from the C.R. value with a significance level of 5%. The testing criteria are; if the C.R. value is> 2, then the hypothesis is accepted, meaning that there is a direct influence on profitability, market value, liquidity and leverage on the stock returns of basic and chemical industry companies. Tests that show the significant influence of profitability, market value, liquidity and leverage on stock returns of basic and chemical industry companies are shown in the following table.

Table 4. Partial Test Results

		C.R.	P
Return <	ROA	1.287	.198
Return <	PER	-1.074	.283
Return <	DER	242	.809
Return <	CR	962	.336

Source: Output SEM Amos (2019)

Variable Profitability (ROA) on Stock Return has a value of C.R of 1,287 <2 with a positive direction, then Ha is accepted, and Ho is rejected, and significant value of 0.198> 0.05. This means that Profitability has no influence on the Stock Returns of Basic and Chemical Industrial Companies listed on the Indonesia Stock Exchange.

Market Value Variable (PER) to Stock Return has a C.R value of 1.074 <2 with a negative direction, then Ha is rejected, and Ho is accepted, and significant value of 0.283> 0.05. This means that Market Value does not influence the Stock Return of Basic and Chemical Industrial Companies listed on the Indonesia Stock Exchange.

The variable Liquidity (C.R.) to Stock Return has a value of C.R of 0.962 <2 with a negative direction, then Ha is accepted, and Ho is rejected, and significant value of 0.809> 0.05. This means that Liquidity (C.R.) does not influence the Stock Return of Basic and Chemical Industrial Companies listed on the Indonesia Stock Exchange.

The variable Leverage (DER) on Stock Return has a C.R value of 0.962 < 2 with a negative direction, then Ha is accepted, and Ho is rejected, and significant value of 0.336 > 0.05. This means that Leverage has no influence on the Stock Returns of Basic and Chemical Industrial Companies listed on the Indonesia Stock Exchange.

# Assumption of Goodness of Fit

Structural models are categorized as the goodness of fit if they meet several requirements. The following is the suitability index of the model in testing whether a model can be accepted or rejected, as presented in Table 5 below.

Table 5. Testing of Goodness of Fit

The goodness of Fit	Value	Cut-off Value	Assumption
Index			
Chi-square (χ2)	1.398	< 5.99 (DF=2)	Fit
Significance Probability	0.497	≥ 0.05	Fit
CMIN/DF	0.699	≤ 2.0	Fit
<i>RMSEA</i>	0.000	≤ 0.08	Fit
CFI	1.000	≥ 0.95	Fit
NFI	0.950	≥ 0.95	Fit
GFI	0.990	≥ 0.90	Fit
AGFI	0.925	≥ 0.90	Fit

Source: Amos 24 SEM Output Results (2019)

Based on testing the suitability of the model (goodness of fit), it can be seen that the suitability index value of the model that appears meets the assumption of goodness of fit so that the model used in this study is appropriate and said to be good.

# Assumption of F-Test

The F test shows whether all independent variables entered in the model have a simultaneous influence on the dependent variable. The testing criteria, at the 5% significance level, is F arithmetic> F table. Its phenomena shows that the hypothesis is accepted. In the other words, there is a simultaneous effect of Profitability, Market Value, Liquidity, and Leverage on Stock Returns of Basic and Chemical Industrial Companies listed on the Indonesia Stock Exchange. The value of F table with N1 = 4 and N2 = 51 is 2.55. Simultaneous test results are presented in Table 6 below.

Table 6. Simultaneous Testing

DF		F table	F count	Sig
N <sub>1</sub>	4			
$N_2$	51			
Total	55	2.55	0.562	0.691
Y	1			
Sample	56			

Based on the table above, the calculated F value is 0.562 <2.55 (F-count <F table), then Ha is accepted, and Ho is rejected, and the significant value is 0.691> 0.05. This means that Profitability, Market Value, Liquidity, and Leverage simultaneously do not affect the Stock Return of Basic and Chemical Industrial Companies listed on the Indonesia Stock Exchange.

# Coefficient of determination

The coefficient of determination (R2) essentially measures how far the model's ability to explain variations in the dependent variable. A small R2 value means that the ability of the independent variable to explain the variation of the dependent variable is very limited. A value close to one means that the independent variable provides almost all the information needed to predict variations in the dependent variable. Squared Multiple Correlation value is 0.042 or 4.2%. In comparison, the remaining 95.8% is influenced by other variables outside the research model.

Furthermore, based on the results have been presented above, it is described the disscussion as follows.

# 1. Effect of profitability on stock returns

Based on the test results, the direct effect is seen that profitability has a C.R. of 1,287 < 2 with a positive direction, and significant value of 0.198 > 0.05. Based on this analysis, the results of the study show that profitability does not affect stock returns. This means that the rise and fall of profitability do not affect the increase or decrease in stock returns. The higher the sales turnover of a company, the generally better financial performance.

The level of profit of the company is able to provide confidence to investors in assessing the performance of the company which will certainly have an impact on increasing stock prices which causes the rate of return of stock (return) also increases. However, a large burden tends to close the income turnover so that it produces less than maximum profits. So that investor confidence is reduced and no longer interested in the company's shares. The results of this study are relevant to Soedjatmiko et al. (2018) which shows that profitability does not influence stock returns.

# 2. Effect of Market Value on Stock Returns

Based on the test results of direct influence, it appears that the market value has a C.R. of 1,074 <2 with a negative direction, and significant value of 0.283> 0.05. Based on the analysis, the results of this study indicate that Market Value does not affect Stock Return. This means that the rise and fall of Market Value have no effect on increasing or decreasing Stock Return. The absence of the effect of PER on stock returns shows that investors pay less attention to PER in calculating the shares of a company. When stock prices increase or decrease investors immediately sell, then PER is more related to other factors, besides that it is also due to economic and political conditions and because of sentiment from the stock market itself.

The willingness of investors to accept PER increases is highly dependent on the company's prospects. Companies that have very low profits or suffer losses cause PER has no meaning. The results of this study are relevant to Sinaga (2019), which shows that the Market Value proxied by PER has no effect on Stock Returns.

# 3. Effect of Liquidity on Stock Returns

Based on the test results of direct influence, it appears that liquidity has a C.R. value of 0.962 <2 with a negative direction, and significant value of 0.336> 0.05. Based on the analysis, the results of the study showed that liquidity had no effect on stock returns. This means that the rise and fall of liquidity do not affect the increase or decrease in Stock Return. High liquidity towards current liabilities reflects idle funds so that the company's operational activities cannot run optimally and will reduce the company's optimal output (Raningsih and Putra 2015). The results of this study are relevant to Febrioni (2016), which shows that liquidity has no effect on stock returns.

# 4. Effect of Leverage on Stock Returns

Based on the test results, the direct effect is seen that leverage has a C.R value of 0.242 <2 with a negative direction, and significant value of 0.809> 0.05. Based on the analysis, the results of the study indicate that leverage does not affect stock returns. This means that the rise and fall of leverage do not affect the increase or decrease in stock returns. A high leverage ratio indicates that the company's performance is getting worse because the level of capital dependence of the company on outsiders is higher. If the company makes a profit, the company tends to use that profit to pay its debt compared to dividend distribution. This triggers investors to immediately release their shares in the company because they are no longer profitable. The results of this study are relevant to Sinaga (2019), which shows that leverage does not have an effect on stock returns.

# 5. Effect of Profitability, Market Value, Liquidity, and Leverage on Stock Returns

The results of the analysis showed simultaneously that Profitability, Market Value, Liquidity, and Leverage have a calculated F value of 0.562 <2.55 (F derived <F table), and significant amount of 0.691> 0.05. Based on this analysis, the fifth hypothesis is known the results of the study show that Profitability, Market Value, Liquidity, and Leverage simultaneously have no effect on Stock Returns of Basic and Chemical Industrial Companies listed on the Indonesia Stock Exchange, while the contribution made is 4.2% while the remaining 95.8% is caused by other factors outside of this research test.

# **E.** Conclusions

Based on the results of the analysis and discussion above, it can be concluded that the profitability variables, market value and liquidity and leverage have no significant effect on stock returns either partially or simultaneously. This, indeed, becomes an issue for primary and chemical industry companies listed on the Jakarta Stock Exchange. Limitations of this study are; 1) selection of non-random companies is limited to 14 companies; 2) the size of the company (size effect) needs to be considered because it also affects the company's ability to obtain that can affect the level of shares acquired by investors, and 3) need to take into account the company's financial ratios because they affect the company's shares. Future studies can expand on the same research by considering economic factors, such as inflation rates, interest rates, foreign exchange rates.

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