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# The Effect Of Regional Original Icome (Pad), General Allocation Fund (Dau) And Economic Growth On Capital Expenditure In District/City In North Sumatra Province

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**ABSTRAK:**This research intent to amalyze the influence of Regional Original Income (PAD), Geral Allocation Funds (DAU) and Economic Growth on Capital Expenditures in district / cities in North Sumatera Province. The population used in this research was 33 convering 25 regencies and 8 urban areas out by the satured sampling method. The approach taken to analyze the data is a quantitative approach ,namely the multiple linier regression analysis technique as a calculation tool and using the spss version 22 program assistance. The research period of 4 years 2017 up to 2022. The result of this study are regional income (PAD), General Allocation Fund (DAU), and Economic Growth Partially affect capital Expenditures in regencies / cities in north Sumtera Province.

KEYWORD: Regional Original Income (PAD), Geral Allocation Funds (DAU), Economic Growth

#### I. INTRODUCING

# 1.1BACKGROUND

The regional expenditure plan is the reason for the monetary planning which in its implementation is completed for government affairs or the Regional Revenue and Expenditure Budget (APBD). The plan and use of regional expenditures become a breakdown of payments and territorial consumption in one year consisting of different parts such as Regional Original Revenue (PAD) and adjustment reserves consisting of the General Allocation Fund (DAU, etc. which combines different uses such as capital consumption.

Economic growth describes the state of the economy of an area which can be seen from the increase in the number of goods or services produced by the area. Economic growth includes the increase in people's income. One of the factors that influence economic growth in regional income. If regional income increases, the provincial government will increase regional spending to improve and complete the foundation and framework for realizing a leading economy in the district.

Considering PP No. 71 of 2010, it makes sense that use is felt when obligations arise, at times of use of resources, or when financial or administrative benefits may diminish different consumption, etc. The large expenditure becomes the benchmark in determining how large the office and framework development will be. We see that in North Sumatra Province capital expenditure is large but the infrastructure is still lacking, especially roads and bridges. This results in less thanthe optimal movement of goods between regions, especially in remote areas where roads are limited.

Regional revenue and expenditure budgets or often abbreviated as APBD affect Regional Original Revenue. The APBD is the main source in the allocation of Regional Original Revenue, in 2017 this share contributed 79.9%. This shows that local governments still depend on funds from the center to fund development in the regions so that districts/cities in the province of Sumatra The North is expected to be able to manage the APBD well to improve facilities and infrastructure in the area. Meanwhile, in 2020 all regions in Indonesia experienced a decrease in APBD including districts/cities in North Sumatra Province. The regional budget was reduced by 40%. The reduction was sourced from the Central Government such as the General Allocation Fund (DAU) and regional transfers were also reduced. Meanwhile, capital expenditures increased. especially in the fields of health, social assistance, and small and medium enterprises, this happened due to the impact of Covid 19 which resulted in funds from the center such as the General Allocation Fund being diverted for handling covid 19.

To have the option to achieve the most extreme results in expanding Capital Expenditures, Local Governments

must have the option to distribute capital consumption expenditure plans appropriately considering that the use of capital is one of the means for Regional Governments to offer the best. assistance to the general public. Based on the background of the researcher, the aim is to examine "The Influence of Regional Original Income (PAD), General Allocation Funds (DAU), and Economic Growth on Capital Expenditures in Regencies\Cities in North Sumatra Province".

#### II. LITERATURE REVIEW

#### Theory of the Effect of Regional Original Income (PAD) on Capital Expenditure

The exploration of Made Ari and Ni PutuSanti (2018) shows the influence of PAD on Capital Expenditures. The results of this study reveal that the higher the PAD, the higher the use of capital to be assigned by the nearest legislature, assemble the office and the framework, especially the foundation.

Research by Susi Susanti and HeruFahlevi (2016) shows that large PAD payments make local governments have the choice to cover regional needs, this shows that PAD affects capital consumption. can fund government exercises and local turnover events. Regions that can rely on PAD in building their infrastructure are called independent regions.

Setyawan's research (2018) proves the influence of PAD on Capital Expenditure. The results of this research state that the increase in local government funds sourced from PAD has been used appropriately to fund regional development or for optimizing facilities by increasing the allocation of Capital Expenditures in providing services to the public.

Based on the opinions of the three experts, it can be concluded that the higher PAD will make the capital expenditure obtained also high. This shows that PAD affects Capital Expenditure.

## Theory of the Effect of the General Allocation Fund (DAU) on Capital Expenditure

EksplorasiRendy Armando (2018) merekomendasikanbahwa DAU berpengaruhsignifikanterhadapBelanja Modal.Hasileksplorasiinimenunjukkanbahwadaerah yang mendapat DAU tinggipastiakanmendapatkanBelanja Modal yang besarbegitu pula sebaliknya.

PenelitianPermatasaridanMildawati (2016) merekomendasikanbahwa DAU mempengaruhiBelanja Modal.Hasilpemeriksaaninimenunjukkanbahwasemakintinggi DAU yang diberikanolehkalanganmenengah, makasemakindiperhatikan pula penataanadministrasiperkantoranpublikmelaluiBelanja Modal.

RisetDwiAnggoro (2017)membuktikanadanyapengaruh DAU terhadapBelanja Modal. Hasilrisetinimenyatakanjika DAU

mengalamiken aikan maka Belanja Modal jugating gisehing gaterciptan yake sejah teraan masyarak at lewat pembangun an akan saran adalam meningkat kan perekonomian daerah tersebut.

Berlandas kan pendapat ketiga ahli tersebut dapat disimpulkan DAU berpengaruh terhadap Belanja Modalguna untuk pengaptimalan dalam pelayan an untuk kesejah teraan masyarakat.

#### Theory of the Effect of the General Allocation Fund (DAU) on Capital Expenditure

The term financial growth is applied to an economy experiencing an increase in per capita payments

In the book, Economic Development (2017) PattaRapanna et al, said that financial development is a cycle in which salary increases without relating it to the rate of population development despite the fact that the rate of population development is mostly related to monetary.

Another definition says that financial development is the expansion of public payments within a certain period, for example in the final year.

According to (Darwanto, 2017) states that economic growth has a positive effect on capital expenditures to improve the facilities and infrastructure of an area.

According to researchers, economic growth is very influential on capital expenditure in an area, if a region experienced significant economic growth, capital expenditure will increase to improve people's welfare.

#### CONCEPTUAL FRAMEWORK

The Conceptual Framework according to Sugiyono (2017: 60 is one method ofunderstandingd the relationship between speculations concentrated in a review. The reasonable structure of this study is as follows:

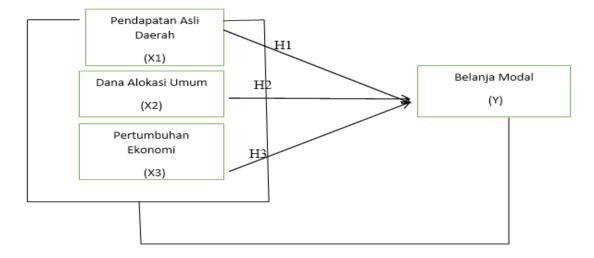


Figure 1. Conceptual Framework

Based on the above ideas, it can be concluded that the research assumptions are as follows:

H1: PAD has a positive influence on Capital Spending in Districts\Cities in the Province of North Sumatra

H2:DAU has a positive influence on Capital Expenditure in Districts/Cities in North Sumatra Province

H3: Economic growth has a positive influence on Capital Expenditures in Regencies\Cities in the Province of North Sumatra

H4: Regional Original Income, General Allocation Funds, and Economic Growth have a simultaneous effect on Capital Spending in Regencies\Cities in the Province of North Sumatra

#### III. BAB IIMETODOLOGIPENELITIAN

#### RESEARCH METHODS

This exploration is a study that uses a quantitative strategy that is determined to find out how the influence of independent factors, especially Regional Original Income (PAD), General Allocation Funds (DAU), and Economic Growth on the dependent variable, especially Capital Expenditure. The type of information used in this study is optional information obtained from the 2017-2020 Regency/City APBD Realization Report in North Sumatra Province which can be obtained from the BPS application.

#### II.1 Population, Sample, and Sampling Technique Population and Sample

The population in this study is all urban areas/areas in North Sumatra Province from 2017-to 2020. The examples in this study are all registered/urban regulations in the Province of North Sumatra, to be precise above 25 regimes and 8 urban areas.

#### Sampling technique

The population in this study is the Reporting on the Realization of the Regional Revenue and Expenditure Budget (APBD) which consists of 25 regencies and 8 cities in the regencies/cities of North Sumatra Province. The sampling technique used in this study is the side-saturation method. Based on this method, there are 132 samples obtained from 33 districts/cities for the 4-year period 2017-2020.

# II.2 Identification and Operational Definition of Research Variables

The operational definition is a clarification of the factors that have been selected. For added subtlety, proof of differentiation and functional meaning of each variable should be seen in the table below:

Table II.2
Operational Definition and Measurement of Variable Variables

Variable	Variable Definition	Indicator	Measurement
Locally-	Provincial Original Revenue is	Regional Original	Ratio
generated	regional payments that are taken	Income=Regional Tax Revenue	
revenue (X1)	from the district's ability to handle	(PPD)+Regional Revenue and	
	payments but have not been	Levies (PRB)+Separated	
	managed according to related	Regional Assets Management	
	regulations. Source: (Nurkholis	Revenue (HPKDD)+Others	
	and Moh.Khusaini,2019:24)	Legitimate Regional Original	
		Income.	
		Source:(Nurkholis and	

		Moh.Khusaini,2019:24	
General	The General Allocation Fund is a	General Allocation Fund=Basic	Ratio
Allocation number of funds that must be		Allocation+Fiscal Gap	
Fund(X2)		Source:(Achmad	
	Government to each Autonomous	Suryana,2018:13)	
	Region in Indoneof understand a		
	balancing fund.		
	Source:(Achmad		
	Suryana,2018:13		
Pertumbuhan	Economic growth is the fiscal	Economic Growth=(GRDPt-	Ratio
Ekonomi(X3	development of the production of	GRDPt1)\(GDP-1)X100%	
)	goods and services that applies in	Source:(Sadono Sukirno,2017:9)	
	an area.		
	Source:(Sadono Sukirno,2017:9)		
Capital	Capital Expenditures are	Economic Growth=Purchase for	Ratio
Expenditure	expenditures used to meet the	Land+Shopping for Equipment	
(Y)	needs of developing tangible	and Machinery+Shopping for	
	assets with a period of more than	Buildings and	
	one year used for government	Buildings+Shopping for Roads,	
	activities such as buildings, roads	Irrigation and	
	and other assets. Source: (Fadillah	Networks+Shopping for Other	
	Amen,2019:23)	Fixed Assets+Shopping for Other	
		Assets.	
		Source:(Fadillah Amin,2019:23)	

# II.3 Data analysis technique

## Classic assumption test

#### Normality test

Ghozali (2018:161-163) Normality test is used to check whether the information is solid or not. Ordinary tests using realistic reports can go wrong if you're not careful from the start it can look mundane, but still not really ordinary. So it is necessary to use a statistical test with the provisions of the Kolmogorov-Smirnov test, namely with the standard Ho being accepted by the Kolmogorov-Smirnov significant score <0.05, Ho being rejected by the Kolmogorov-Smirnov significant score of 0.05.

## **Autocorrelation Test**

According to Ghozali (2018: 111), the emergence of autocorrelation due to ordered and interrelated reviews. The autocorrelation test was carried out to determine the suitability of the factors in the assessment model at various times.

#### **Multicollinearity Test**

Ghozali (2018:107) recommends that the multicollinearity test is very helpful in seeing the relationship between the relapse models, whether there is a match between the independent factors. This test can be detailed from how big the resistance and the difference in the expansion factor (VIF).

## **Heteroscedasticity Test**

Ghozali (2018:137) states that the heteroscedasticity test is used to understand whether or not the variance of the residuals occurs in each observation. It is said to be homoscedastic if the residuals from one study to the following study are the same, if they are different it is said to be heteroscedasticity.

#### **II.4** Hypothesis Test

## **Partially Significant Test (T-Test)**

The T-test basically shows the impact of one autonomous logical variable separately in understanding the diversity of the dependent variable. The test is carried out by utilizing the 0.05 level of importance.

#### **Simultaneous Significant Test (F-Test)**

The F test basically shows whether all the independent or independent factors that are remembered for the model influence the dependent variable. Invalid speculation (H0) should be tried whether all limits in the model are equivalent to zero.

#### **Research Model**

$$Y = \alpha + \beta 1 X2 + \beta 2 X2 + \beta n Xn + e$$

Keterangan

Y = Variabel terikat atau variabel reponse

X = Variabel bebas atau variabel predictor

a= konstanta

 $\beta$  = Slope atau Koefisien estimate

#### HASILDANPEMBAHASAN

#### **StatistikDeskriptif**

Descriptive statistics describe the dependent variable and independent factors in a measurable manner. In the expressive measured test, it is indicated by complete information, normal value, standard deviation, smallest value, and thelargest value of the exploration factor. The factors in question are PAD, DAU, and Economic Growth. The consequences of the graphical investigation are combined as follows:

**Descriptive Analysis Results** 

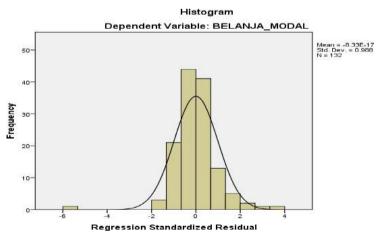
	N	Minimum	Maximum	Mean	Std.Deviation
PAD	132	8459902	2338282166	1.4388	3.32678
DAU	132	7870476	1686885959	6.2658	3.16158
PERTUMBUHAN_EKONO M I	132	.09	6.09	4.1143	1.94319
BELANJA_MODAL	132	992661	997475993	2.3848	1.44198
ValidN(listwise)	132				

The table above shows an expressive factual description of each exploration variable. PAD has a base value of 84599902 in the South NiasRegency, the largest value is 2338282166 in Medan City, a typical value of 1.4388 and a standard deviation of 3.32678.

The DAU has a base value of 7870476 in West Pakpak Regency, the most extreme value of 1686885959 in Deli Serdang Regency, a typical value of 6.2658, and a standard deviation of 3.16158. Financial development has a baseline value of 0.09 in HumbangHasundutan Regency, the most extreme value of 6.09 in Medan City, a typical value of 2.3848, and a standard deviation of 1.44198.

## Classic Assumption Test Results Classical Normality Test

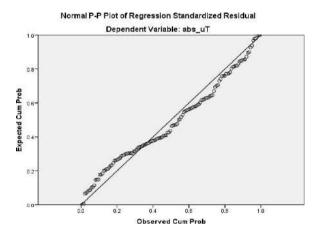
# 1. Histogram Graph Analysis



# **Data Histogram Image**

Displays a histogram graph illustrating the information design which is usually adjusted because it is a modified bell and the bends are flat, so the usual assumptions are met.

# 2. P-Plot Image Analysis



#### GambarGrafikDataP-Plot

The P-plot above shows that the focus spreads out and touches the long slash, then the information has met the usual requirements.

# **Table of Normality Test Results**

One-SampleKolmogorov-SmirnovTest

		Unstandardized Residual
N NormalParameters <sup>a,b</sup>	Mean	132 .0000000
MostExtremeDifferences	Std.Deviation Absolute Positive Negative	1.05013686E8 .109 .109 099
Kolmogorov-SmirnovZ Asymp.Sig.(2-tailed)	<u> </u>	1.256 .085

Based on the table above, the significance value of the Kolmogorov-Smirnov Test is 0.08 where the value is > 0.05, so it corresponds to the P-Plot histogram graph and is normally distributed.

# **Multicollinearity Test**

**Table of Multicollinearity Test Results** 

		CollinearityStatistics			
Model		Tolerance	VIF		
1	(Constant)				
	PAD	.609	1.642		
	DAU	.607	1.649		
	PERTUMBUHAN_EKONOMI	.959	1.043		

Based on the table above, it can be seen that the tolerance values for PAD, DAU, and Economic Growth are 0.609; 0.607; 0.959 where the value is > 0.10. Likewise with the value of VIF on PAD, DAU, and Economic Growth, respectively, namely 1.642; 1.649; 1.043 where the value is < 10.00. So it can be concluded that the independent variable does not occur multicollinearity.

**Autocorrelation Test** 

#### **Autocorrelation Test Results**

ModelSummary<sup>b</sup>

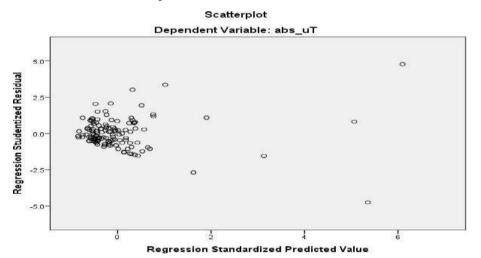
Model	Durbin-Watson
1	1.852

- a. Predictors:(Constant),PERTUMBUHAN\_EKONOMI,PAD,DAU
- b. DependentVariable:abs\_uT

Based on the table above, the Dw value is 1,852, and the DU value is 1.7364 and the 4-du value is 2.148. From these results, it shows that du < DW < 4-DU so that it can be concluded that there is no autocorrelation.

#### **Heteroscedasticity Test**

1. Graph Test



# GambarScatterplot

Judging from the scatterplot diagram, it tends to be seen that the spread of focus looks irregular, does not form a clear line design and the spread is above or below the number 0, the y-axis. This information shows that there is no heteroscedasticity. To find out these side effects, Park's test was completed.

# Heteroscedasticity Test Results Coefficients<sup>a</sup>

Мо	del	Т	Sig.	
1	(Constant)	2.264	.025	
	PAD	1.273	.205	
	DAU	7.506	.000	
	PERTUMBU			
	HAN_EKON	518	.605	
	OMI			

a.DependentVariable:BELANJA\_MODAL

The Park test value in the table above shows a sig value > 0.05 so there is no heteroscedasticity.

#### **MODELPENELITIAN**

HasilRegresiBerganda

			StandardizedC oefficients		
Model	В	Std. Error	Beta	t	Sig.
1(Constant)	17,837	4,077		3.646	.000
PAD	.141	.018	.589	7.649	.000
DAU	.054	.019	.215	2.788	.006
PERTUMBUHAN_	-,070	,127	231	-3.764	.000
EKONOMI					

a.DependentVariable:abs\_Ut

Capital Expenditure = 17,837 + 0,511 PAD + 0,054 DAK - 0,070 Economic Growth

- 1. The constant value is 17.837 units, so PAD, DAU, Economic Growth will increase by 17.83 one unit in Capital Expenditures
- 2. The constant value is 17.837 units, so PAD, DAU, Economic Growth will increase by 17.83 one unit in Capital Expenditures. Nilaikoefisien regresi PAD adalah0,141 satusatuan makaPADakan meningkat sebesar0,141satu satuan padaBelanjaModalberasumsivariabel lainnyakonstan ataunol
- 3. The value of the DAU coefficient is 0.054 one unit and then the DAU will increase by 0.054 one unit in Capital Expenditure assuming the other variables are constant or zero. Nilaikoefisien
- 4. Economic Growth is -0.070 then Economic Growth will increase and Capital Expenditure will decrease by 0.070 one unit in Capital Expenditure assumeothervariablesdconstant or zero.

# **Coefficient of Determination Test**

ModelSummary<sup>b</sup>

Model	R		,	Std. Error of theEstimate
1	.685 <sup>a</sup>	.469	.457	1.062E8

- a. Predictors:(Constant),PERTUMBUHAN\_EKONOMI,PAD,DAU
- b. DependentVariable:BELANJA MODAL

Based on the table above, the value of Adjusted R Square is 0.457, so it can be seen that 45.3% of changes in Capital Expenditures can be explained by the PAD, DAU, and Economic Growth variables, while the remaining 54.3% is influenced by other variables not studied.

#### **UjiHipotesis**

1) Ujit(Parsial)

#### Coefficients<sup>a</sup>

			StandardizedCo efficients			
	Unstandardized	Coefficients				
Model	В	Std. Error	Beta	T	Sig.	
1 (Constant)	53418686.876	14651538.405		3.646	.000	
PAD	.141	.018	.589	7.649	.000	
DAU	.054	.019	.215	2.788	.006	
PERTUMBUHAN_EKONO MI	9437891.638	2507578.635	.231	3.764	.000	

a.DependentVariable:abs Ut

- 1. The PAD variable partially has a dtcount of 7.649 and a ttable value of 1.9567, then tcount>ttabled a significant value of 0.000 <0.05d, indicating that H0 is rejected and Ha is partially accepted. PAD has a positive and significant impact on d Capital Spending.
- 2. Variabel DAU secara parsial thitungsebesar 2,788dannilai ttabelsebesar 1,9567maka thitung<br/><tabelnilai signifikan 0,006>0,05 menunjukkanH0 diterima danHaditolak secaraparsialDAUt berdampaksecarapositifdansignifikanterhadapBelanjaMod al.
- 3. Partially Economic Growth Variable dtcount is 3.764 and dttable value is 1.9567, then tcount<ttable significant value 0.000 > 0.05 indicates dH0 is accepted and Ha is partially rejected. Economic growth has a negative and significant impact on Capital Expenditure.

#### 2) ) F Test (Simultaneous)

#### ANOVA

Мо	del	Sum ofSquares	df	MeanSquare	F	Sig.
1	Regression	1.277E18	3	4.257E17	37.722	.000 <sup>a</sup>
	Residual	1.445E18	128	1.129E16		
	Total	2.722E18	131			

- a. Predictors:(Constant),PERTUMBUHAN EKONOMI,PAD,DAU
- b. DependentVariable:BELANJA MODAL

Based on the table above, simultaneously PAD, DAU, and Economic Growth have an effect on Capital Expenditure with a significance value of 0.00 where the value is <0.05.

#### IV. DISCUSSION

#### **Effect of PAD on Capital Expenditure**

The research shows that PAD partially affects Regency/City Capital Expenditures in North Sumatra with an importance value of 0.00 where the value is <0.05, and this indicates that speculation 1 (H1) is recognized.

The results of this study are in sync with the results of Baldric's research (2017) and Made Ari Ni PutuSanti's research (2018) which states that where PAD affects Capital Expenditures.

This study shows that the development of facilities and infrastructure in each district/city in North Sumatra Province depends on PAD, because facilities and infrastructure are spent through Capital Expenditures.

# The Effect of DAU on Capital Expenditure

The research shows that the DAU partially affects the Capital Expenditures of Districts/Cities in North Sumatra with an importance value of 0.00 where the value is <0.05, and this indicates that speculation 1 (H1) is recognized.

The results of this study are in sync with the results of Rendy Armando's research (2018) which states that PAD affects Capital Expenditures.

This study shows that the DAU is obtained from the transfer of the central government's APBN which is obtained to support the finances of districts/cities in North Sumatra for capital expenditures. This happens because local governments still need high funds to improve the development of facilities and infrastructure in the regions, so it can be concluded that the higher the DAU, the higher the allocation of Capital Expenditures.

# Pengaruh Pertumbuhan Ekonomi Terhadap Belanja Modal

The research shows that Economic Growth partially significantly affects Regency/City Capital Expenditures in North Sumatra with an importance value of 0.00 where the value is <0.05, and it means that speculation 1 (H1) is recognized.

The results of this study are in sync with the results of research by PattaRapanna et al. (2017) and Darwanto (2017) which state that Economic Growth affects Capital Expenditure.

This study shows that economic growth in an area has a very strong effect on capital expenditure. If an area experiences significant economic growth, capital expenditure will increase to improve people's welfare.

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