# INFLUENCE OF FORMAL SMALL INDUSTRY PRODUCTION AND REVENUE REALIZATION TAX ON ECONOMIC GROWTH IN ACEH UTARA DISTRICT

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### ARTICLEINFORMATION ABSTRACT

### Keywords:

Economic Growth, Small Formal Industrial Production, Realization Of Tax Revenue, Multiple Linear Regression. This study aims to determine the effect of Formal Small Industrial Production and Realization of Tax Revenues on Economic Growth in North Aceh Regency. The datta used in thits studyy are time series in the period e2010-2017. The analytical model used iin this studyy is the Multiplle Linear Regressions Model. The result showeld that are that togetther with the variiablles of formal smaall industriasl productiont and the realizations of tax revenuese had a significants effect on economicc growth. While partialy the formall small industriasl productions is significanst and positive effect economicc growth and the realizations of tax revenuess are significants and negativelyy effect economicc growth in the districts of North Aceh.

### 1. **PRELIMINARY**

North Aceh Regencyy is the largestt district in Aceh Provincee which has industriall potential, such as thee oil and gas induustry that wass once victoriouus in this reguion and seveeral other large industries succh as PT. Pupuk Iskandar Muda (PIM) and PT. Arun NGL, this hass the potentiall for the developmentt of smaall industries that can contribute to these large industries. Producction as well as the high productionc of small industries can increase the GRDP of North Aceh so that it can increase economic growtth in North Aceh. For moree details, as shown in the table below regarding formal small industry production, the realization of tax revenuee and economicc growth in Aceh Utara District aree as follows:

### Table 1

Economic Growth, Formal Small Industry Production and Realization of Tax Revenues in North Aceh District 2010 - 2017

YEAR	ECONOMIC GROWTH (PERCENT)	FORMAL SMALL INDUSTRY PRODUCTION (RUPIAH)	REALIZATION OF TAX REVENUE (Rp)
2010	2.53	47,522,001	13,876,067,033
2011	7.5	150,391,413	7,253,679,916
2012	5.38	52,003,878	11,099,944,020

2013	3,3	52,003,878	12,997,494,023
2014	4.18	644,965,932	17,957,243,166
2015	4.65	644,965,932	19,883,019,543
2016	3.27	94,362,408	21,671,743,611
2017	1.6	94,362,408	26,143,329,652

Source: (BPS Aceh Utara Regency, 2020)

Data Table 1.1 abovec shows that in 2010 the productions of formal smalel industries wass Rp. 47,522,001 rupiah. In the ssame years, the of realizatison tax revenuess was Rp. 13,876,067,033 rupiah. The economics growth of North Acehs is 2.53 percents. In 2011, theres was a problem withs the realizations of tax revenues which decreaseds from the previouss years, namely Rp. 7,253,679,916 rupiah dues to a decreases in tax revenues for advertisemensts, restaurantss and entertainments. Howevers, this descline actually led to ans increases in economics growth froms the previouss year, namely 7.50 percents. The reasons for the increases in economics growth wass one of the reasonss that isn the sames year the productions of formals small-scasle indusstries isncreased dramatiscally.

The second phenomenon occurreds in 2012, whichs is the opposites of the phenomenons

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1

that occurreds in the previouss year, namelys the realizations of tax revenues increased froms the previouss year, namely Rp. 11,099,944,020 rupiah, the isncrease in the rsealization of taxs revenues actually causeds a declines in economics growth from sthe previouss year, namely by 5.38 percents. The causes of the declines in economics growth was dues to the manys problems ins Norths Aceh, namelys the decline sin industrial productions in the sames year.

The thirds phenomenon occurreds in the realizations of tax revenues in 2016 which increased from thes previous year whichs was Rp 21,671,743,611 rupiah, howevers the increases in tax revenues actuallys causeds economics growth to declines froms the previouss year whichs was 3.27 percent. the realizations of tax revenues shoulds increase, it will increases economics growth.

This researchs berthes purposes of knowing and analyzings the effects of formals small industrys productions and tax revenues realizations on economics growths in Aceh Utara districts.

# 2. THEORETICAL REVIEW

### **Economic growth**

Economics growth is the developments of activitiess in the economys that causess goods and servicess producesd in societys to increases and the welfares of societys to increases in the longs term (Hotman, 2013). Sukirnos insideSutrisna (2016)definess economics growth as the developments of activitiess in the economys that causes increaseds goods and servicess produceds in society. This increases is causeds by productions factorss that ares alwayss experiencings an increase in quantitys and qualitys. Economics growth can be achieveds if all sectorss in one regions can carrys out all processess productions well, they musts encourages each others, because eachs production process requiress cooperations from variouss sectosrs, so that betsween industriess will have a positive relationships.

### **Formal Small Industrial Production**

Production is an activitys that increasess the values of an item. Each country shas its own sflagship production ssector in orders to increases economisc activity. In the worlds of trades, thes outputs produceds in the productions process is verys important because the resultss of theses production asctivities will destermine the wheesls of tsrade(Wibisono, 2015). In osther wordss, foreigns agriculturals activities, namely sexports, are largelys determineds by productions activitiess. If productions activities weakens, it is certains that the productions resultss are onlys able sto meet domestics needs and are unables to sell overseass.

# **Realization of Tax Revenue**

The definitions of tax accordings to Brotosdihardjo in Apriansyah & Bachri (2016) is a contribution sto the statse sthat casn be fsorced on thes taxpayser to spay it accorsding to regsulations, withosut getsting any re-achievemsent. This fee is intended tso be usesd to financse sgeneral expessess reslated to thes state's task ofs running thses sgovernment. Undserstanding tax according to Ssommerfeld in(Mar, 2017) is a msandatory transfer of ressources from the prisvate sectors to the governmesnt sectsor based on regulsations wisthout a disrect and balasnced return. This tax sis intendeds so that tshe governmesnt can carsry out itss dutiess in running tshe government.

### conceptual framework



# Picture 1. conceptual framework

The conceptual framework isn Figure 1 above explasins the influences between the independents and dependents variables, namely the effesct of forsmal smalls industry production (x1) and the realizsation of tax revenues (x2) on economsic growth (y) which will be testesd partially by susing the t test, ansd together sall the isndependent variables on the dependent using the f tests.

# Hypothesis

The alternatives hypotheses givens in thiss study are as followss:

- H1: It is suspecteds that Formals Small Industrys Production hass a positives and significants effect to Economics Growth in Aceh Utara Districts.
- H2: It is suspecteds that the Realizations of Tax Revenues has a positive ands significant effect to Economics Growth in Aceh Utara Districts.

# **3. RESEARCH METHOD**

# **Research object and location**

The researchs objects useds in this studys are the Formals Small Industrys Production and Taxs Revenue Realizations in North Aceh Regencys as independents variables and Economics Growth in North Aceh Resgency as the dependents variable. The researchs location sis in North Aceh Regencys.

# **Types and Sources of Data**

The types of data to be analyzeds in this studys is quantitatives data, namelys secondary data durinsg the 2010-2017 period obtsained from vsarious relatesd agencsies, nsamely the Centrals Statistics Agencys (BPS) in Norths Aceh Regency.

# Data collection technique

The data useds in this researchs is secondarys data, which sis taken dsirectly from sthe BPS of North Asceh Regencys in the forms of the Aceh Utaras Reports in Figures 2010-2017 whichs containss data on the productions of formal smalls industriess, the realization of taxs revenuess and the economics growth of Norths Aceh.

# **Operational Definition of Variables**

The researchs variables that wills be examineds in this studys can be defineds as follows:

1. Economic Growth (Y)

Economics growth, namelys the process of increasings production capacitys or the amounts of real remunerations for the use of productions factors in a certains year is greaters than in the previouss year, economics growth in thiss study is the amounts of economic growths in North Aceh Regencys each years in percentage units.

2. Formal Small Industrial Production (X1)

Formal small industrial productions is an efforts to make or improves the functions of goodss or to creates a product froms various raws materials useds into ones high-value products. the amounts of formal smalls industry productions in Norths Aceh Regency ins rupiah unitss.

3. Actual Tax Revenue (X2) The realizations of tax revenues is an obligatorye contribution paide by the publice to the statee directly or indirectlye and used fore state needse. the amounte of realizede tax revenuee in North Aceh Regencye in rupiah units.

# Data analysis method Regression Analysis

The generals form of multiples linear regressions can be writtens as follows:

 $Yt = \beta 0 + \beta 1X1t + \beta 2 X2t + et$ 

Meanwhile, to determines the significances level of eachs of the regressions coefficients of the independents variabless on the dependents variable, the researcherss used the classicasl assumptions test, t-statistical stest, F-statisstic test, and asnalysis of the csoefficient of detsermination (R2).

# Classic assumption test Normality test

According to Gujarati (2009)states that the normalitys test is a test where if the probability is greater than alpha 1 percent, the normality test is accepted. Anothers justifications for this test is to compares the calculated JB values with  $\chi 2$  table, if JBs count <2 table then the residuals is normally distributeds. Meanwhile, according to(Sunyoto, 2011) The normality tests is a test sthat will tests the independents variable datas (X) and the dependents variables data (Y) in the resultings regressions equation that is normallys distributeds.

## **Autocorrelation Test**

According to (Ghozali, 2010) Autocolerations test aims to test whethers the linears regression models has a correlations between the confoundings error in periods t with the confoundings error in periods t-1 (before). If theres is a correlation, it is calleds an autocorrelations problem. Autocorrelations can occurs because successsive observationss over time are relateds to one anothers. This problems arises becauses the residual (disturbance error) is nost free from time seriess (time series) becauses disturbancess in an individuals / group tends to affect the same individuals / group in the nexts periods. In thiss study, to test the presences or absences of autocorrelations symptomss using the Durbins Watsons test (DW test).

### **Multicollinearity Test**

Multicollinearity is a conditions where there is a strongs correlation betweens the independents variables (X) whichs is involveds in the formations of the linaears regressions model. (Gujarati, 2006). The multicollinearitys test wass carried outs to see whethers the regressions model founds a correlations betweens the independents variables (X). If there iss a high correlations, then the regressions model will occur multicollinearitys.

### **Heteroscedasticity Test**

This heteroscedasticity problems arises whens the residualss of the regressions model we observes have variantss that arse not constants from one observations to another (Hasan, 2002). This meanss that eachs observations has a differents reliabilitys due to changess in the underlyings conditionss not includeds in the models specifications. In facts, one of the importants assumptionss in the OLS or multiples regression models is thats the variancse is homoscedastics.

### Hypothesis test

To test the correctnes of the regressions model, statisticals esting is requireds including:

# **T-statistic test**

According to Ghozali (2006), statisticals test or t test aimss to see the significants effect of the independents variable individuallys on the dependents variables by assumings the other independents variables are constants.

- 1. If t arithmetic> t table, thens the explanatorys variable individuallys affects thes describeds variable significantlys.
- 2. If t count <t table, then thes explanatorys variable individuallys does not affects the explaineds variable significantlys.

# F-statistic test

To determine the overall significance level at the 95% confidence level, hypothesis testings is

done by usings the F test. Gujarati (2006), the F test is carried out by comparings the F counts with the F tables, if F count> F table, looks for in tables F with a significances level of 1%, meanings that (X1), (X2), and (X3), together affects (Y).

# **Coefficient of Determination (R2)**

This coefficients value rangess from 0 (zero) to 1 (one). The greaters the coefficients value, the more independents variabless are ables to explains the variations in the dependents variable. The value of the coefficients of determinations is a measures that shows sthe contributions of the independents variable to the dependents variable, or in others words sthe coefficients of determinations measuress the variations of the derivatives of Y whichs is explaineds by the effects of X. dependents variableR<sup>2</sup>(Gujarati, 2009).

### **Correlation Coefficient (R)**

According to Supranto (2009)Correlations analysiss is a way to determines whethers or not the relationships betweens the independents variable (X) and the dependents variable (Y) is strongs, if it is stateds by a linears function and measureds by a values called the correlations coefficient. The correlations coefficient can be expressed by the followings formula:

$$r = \frac{n(\sum XY) - (\sum X)(\sum Y)}{\sqrt{\{n(\sum X^2) - (\sum Y)^2\}\{n(\sum Y^2) - (\sum Y)^2\}}}$$

Information :

n = Amount of data

X = Independent Variable

- Y = Dependent Variable
- r = Correlation Coefficient

# 4. RESEARCH RESULTS AND DISCUSSION

Research result Classical Assumption Test Results

### **Normality Test Results**



#### **Histogram-Normality Test Results**

Based on the test results shown in the picture above, the Jarque-Bera value is 2.29. while the Chi Square value by looking at the number of independent variables we use, in this case 2 independent variables and the significant value we use in this case is 0.01 (1%), the Chi Square value is 9.21, which means that the Jarque-Bera value is smaller than the Chi Square value (2.29 <9.21) and the probability is 0.31 > 0.01. It can be concluded that the production of formal small industries and the realization of tax revenues on economic growth in North Aceh Regency, the residual data in this study are normally distributed.

# **Autocorrelation Test Results** Table 2

### **Autocorrelation Test Results**

Hipotes Nol	Keputusan	Jika
Tidak ada autokorelasi positif	Tolak	0 < d < d1
Tidak ada autokorelasi positif	No Decision	$dl \le d \le du$
Tidak ada korelasi negatif	Tolak	4 – d1 < d < 4-
Tidak ada korelasi negatif	No Decision	$4 - du \le d \le 4 - d1$
Tidak ada autokorelasi, positif	Tidak ditolak	du < d < 4 - du
atau negatif		
Sumber: Ghozali, 2011		

Nilai DW	1.84
Nilai signifikansi (α)	1%
n = tahun	32
k = variabel independen	2
Nilai dl	1.30
Nilai du	1.57
Nilai 4-dl	2.70
Nilai 4-du	2.43
Country Data distant	2020

Sumber: Data diolah, 2020

The results obtained are the Durbin Watson value of 1.84, comparison using a significance value of 5%, the year used 32 (n), and the number of independent variables 2 (k = 2), then the Durbin Watson table will get the dl value of 1.30 and the value du value of 1.57, then the 4-dl value of 2.70 and the 4-du value of 2.43. Because the DW value of 1.84 is greater than the upper limit (du) 1.57 and less than 4 - 1.57 (2.23), it can be concluded that there is no positive and negative autocorrelation.

# **Multicoliniearity Test**

The test results are as follows:

# Table 3 **Multicoliniearity Test Results**

Covariance Ana	ilysis: Ordinary			
Date: 02/27/20	Time: 11:40			
Sample: 2010Q	1 2017Q4			
Included observ	ations: 32			
Correlation				
t-Statistic	Y	X1	X2	
Y	1.000000			
X1	0.189862	1.000000		
	1.059185			
X2	-0.730584	0.245536	1.000000	
	-5.860346	1.387324		
<u>.</u>	: :			

Sumber: Hasil Olah Data, 2020

Based on the table above, it can be seen that the x1 correlation coefficient is 0.18 or (0.18 < 0.8), and the x2 correlation coefficient is 0.73 or (0.73 <0.8) because the correlation coefficient is smaller than 0.8, and x1 with x2 = 0.25 which means 0.25 <0.80 then in this model does not indicate multiko. This shows that there is no multicollinearity in the production of formal small industries and the realization of tax revenues in Aceh Utara District.

# **Heteroscedasticity Test Results** Table 4 **Heteroscedasticity Test Results**

Heteroskedasticity Te	st: White		
F-statistic	5.111563	Prob. F(2,29)	0.0125
Obs*R-squared	8.340489	Prob. Chi-Square(2)	0.0154
Scaled explained SS	2.409371	Prob. Chi-Square(2)	0.2998

Sumber: Hasil Olah Data, 2020.

The Obs \* R-Square value is 8.34, compared to the X2 table at df (2) with  $\alpha = 1\%$  is 9.21. So based on these results it can be concluded that 8.34 < 9.21. so in this model there is no indication of heteroscedasticity. This can also be seen from the probability value of 0.0154> 0.01.

### **Multiple Linear Regression Test Results**

Table 5Multiple Linear Regression Test Results				
Variable	Coefficient	Std. Error	t-Statistic	Prob.
С	106.6384	9.024268	11.81684	0.0000
LOG(X1)	0.823580	0.109280	7.536428	0.0000
LOG(X2)	-5.034870	0.353241	-14.25337	0.0000
AR(1)	0.869208	0.158634	5.479340	0.0000
SIGMASQ	0.154735	0.036721	4.213784	0.0003

Sumber: Hasil Olah Data tahun, 2020.

The basic model of research is:  $Yt = \beta 0 + \beta 0$  $\beta 1LnX1t + \beta 2LnX2t + et$ and the result is: PEt = 106.64 + 0.82 LnX1t - 5.03 LnX2t, namely where:

### Constant = 106.64

If the formal small industrial production and the realization of tax revenue are constant, then the economic growth will be constant at106.64 percent.

### Prameter $\beta 1 = 0.82$

The variable of formal small industry production is 0.82. If the formal small industry production increases by 1%, then the economic growth will increase by 0.82%, assuming constant tax revenue realization.

Prameter  $\beta 2 = -5.03$ 

The variable of tax revenue realization is -5.03 is that if the tax revenue realization increases by 1%, then the economic growth will decrease by 5.03%, assuming constant small formal industrial production.

# **Hypothesis Test Results**

### Partial Test Result (t test)

The statistical test is a partial test of the coefficient of the independent variable. This test is done to see the significance level of the independent variables individually in influencing the variation of the dependent variable. This test is done by comparing  $t_{statistics}$  on the regression results with t table. that is :

- 1. If tcount> ttable, then H1 is accepted, which means that the explanatory variable individually affects the explained variable significantly.
- 2. If tcount <ttable, then H1 is rejected, which means that the explanatory variables individually do not significantly influence the variables explained.

The partial test is obtained by looking at  $t_{table}at \alpha = 1\%$ , is (nk) = 32 - 3 = 29 = 2.75639 is = 2.76. Partial test results can be seen in table 4.6 above by comparing the t-count value with the t-table value. To get the t-table (nk) = (32-3) = 29 at  $\alpha = 1\%$ , then the t-table is 2.75639 or 2.76.

- 1. The formal small industry production variable has a value of tcount> ttable or 7.53> 2.76, then reject H0 and accept H1,this means that the production of formal small industries has a significant and positive effect on economic growth in North Aceh District. This can also be seen from the probability of 0.00 <0.01.
- Furthermore, the tax revenue realization variable has a value of tcount> ttable or -14.25> 2.76, then H0 and accept H2, meaning that the realization of tax revenue has a significant and negative effect on economic growth in Aceh Utara Regency. This can also be seen from the probability of 0.00 <0.01.</li>

# Concurrent Test Results (Test F) Table 6 F-Test Results

F-statistic	121.5672	
Prob (F-statistic)	0.000000	
Source: Results of data processing, 2020.		

Based on the test results simultaneously or jointly from the table above, it can be concluded that the Fcount value of 121.56 is greater than Ftable, which is 5.42, meaning that the variables of formal small industry production and the realization of tax revenue are jointly influential and significant. on economic growth in North Aceh District. This can also be seen from the prob. A total of 0.00 <0.01.

# **Coefficient of Determination R2**

Table 4.8R2 Test Results

R-squared	0.947396	
Adjusted R-squared	0.939603	
Source: Persults of data processing 2020		

Source: Results of data processing, 2020.

From the results of data processing Adjusted R-Squared (R2) of 0.9396 so the amount of influence formal small industry production variables and the realization of tax revenues on economic growth in North Aceh District is 0.9396 (93.96%), and the remaining 0.0604 (6.04%) is influenced by other variables outside this model.

# **Correlation Coefficient (R)**

According to Supranto (2009) Correlation analysis is a way to determine whether or not the relationship between the independent variable (X) and the dependent variable (Y) is strong, if it is stated by a linear function and measured by a value called the correlation coefficient.

From the results of the correlation coefficient test in Table 4.8, it can be seen that  $(R) = \sqrt{R2} = \sqrt{0.9474} = 0.9733$ . So the relationship between Formal Small Industry Production and the realization of tax revenue has a very strong positive relationship because the correlation value of 0.9733 is close to positive one (+1).

### Discussion

# The Relationship between Formal Small Industry Production and Economic Growth

Based on partial testing, it cans be concludeds that the formal small industry production

variables haves a significants and positives effects on economics growths in North Aceh Regency, the ups and downs of small industrial production do not result in fluctuations in economic growths. This is ins accordances with previous research conducted byPutra & Sutrisna (2017). Effect of Productions and Inflation on Economic Growth. The resultss showed thats production had a positives effects on economics growths.

# The Relationship between Tax Revenue Realization and Economic Growth

Baseds ons the partial test, it cans be concludeds that thes tax revenue realization variable hass a significants and negatives effects on economic growths in North Aceh Regency. This iss in accordances with thes research conducted byDewi & Budhi (2018) Analysiss of the Effects of Local Taxes, Regional Charges on Labor and Economic Growths in Palangka Raya City, Central Kalimantan Province. Where local taxes affect economic growth.

PAD, especially from the regional tax sector, will encourage the economy and developments in a regions and can run smoothly and can encourage the growths of thes privates sectors and households in allocating existing resources in an area which will lead to increased economic growth.

# The Relationship between Formal Small Industry Production and Tax Revenue Realization and Economic Growth

Baseds on thes simultaneous regression results, the variabless of Formal Small Industry Production and Tax Revenue Realization haves a significants and significants effects on Economics Growths. Froms the resultss of data processing Adjusted R-Squared (R2) of 0.9396 so the amounts of influenceformal small industry production variabless and the realizations of tax revenues on economics growths in North Aceh District is 0.9396 (93.96%), and the remaining 0.0604 (6.04%) is influenceds by other variables outside this model.

# 5. CONCLUSIONS AND SUGGESTIONS

# Conclusion

Baseds on the resultss of the researchs thats hass been dones, the following conclusions cans be obtaineds:

a. Baseds on the resultss of tests carried out simultaneously or jointly, it is known thats the productions of formal small industries

and the realizations of tax revenues have a simultaneous effects on economics growths in North Aceh Regency. Baseds on thes F-count value obtaineds froms the regression results, which is 121.56 then compareds to thes Ftable, which is 5.42 (121.56> 5.42). Then lookings at the prob value for all independent variables is 0.00, where the value is greater than 0.01 (0.00 < 0.01). Froms the resultss of data processing Adjusted R-Squared (R2) of 0.9396 so the amount of influence formal small industry production variabless and the realizations of tax revenues on economics growths in North Aceh District is 0.9396 (93.96%), and the remaining 0.0604 (6.04%)is influenceds by others variabless outside this model.

- b. The resultss of the researchs partially shows that thes productions of small formal industries hass a significants and positives effects on economics growths in North Aceh Regency, has a value of tcount> ttable or 7.53> 2.76 and can also be seen at a probability value of 0.00 < 0.01.
- c. The resultss of the researchs partially shows that thes realizations of taxs revenue hass a significants and negatives effect ons economics growths in Aceh Utara Regency, has a value of tcount> ttable or -14.25> 2.76 and can also be seen at a probability value of 0.00> 0.01.

# Suggestion

Baseds on the resultss of researchs conducted by researchers, there ares severals suggestions, namely:

- a. For academics, theres is a needs for further researchs usings the same variables in all districts and cities throughout Indonesia. This aims to haves a wider coverage and not only parts of thes area. So that every incident in thes regions can bes known by thes public.
- For the North Aceh District Governments to be b. able to maximize its effortss to increase economic growth, this developments is very importants. cans becauses it increase production and consumption of thes communitys, as wells as thes welfare of thes people in thes future.
- c. The governments needs tos make changess in the developments of economics growths, in thiss cases collaborating with all elements of society so that regional achievements reach the communitys in the forms of regional welfare in North Aceh Regency.

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