

## **Improvement of Fisherman Public Pass Simple Technology and Usage Precise Technology in Countryside Manado Tua Districk Bunaken Town Manado**

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**Abstract:** *Although the people in Manado Tua, Bunaken was had the fish farms as they resource but the fact is they still included in fallen behind village. Since 1998 to increased the people prosperity they had used catch equiymnt with the exact technology, but they can't really felt the advantage of the technology yet because of the own culture and still used is 100 respondents consisted of out of 50 public respondents using simple technology and 50 public respondents usage precise technology. Data analysis applies correlation product moment and test t.*

*From result of research according to hypothesis the simple technologi to increased their income. A'ccording to this problem, whitter have a research about the influence of the simple catch equiymnt with the exact technology to increased the people prosperity Purpose of research is with knows how far earnings and prosperity of public countryside Manado Tua by using simple technology, and know are there improvement of earnings and prosperity of public by using usage precise technology. Number of Populations 185 while sample expressing that there is associative relationship between simple technologies and earnings and prosperity of public hence chnologies and earnings and prosperity of fisherman public in countryside Manresult of analysis there is no associative relationship between simple countryside Manado Tua Districk Bunaken Town Manado result of of calculate  $r = 0,149$  Pertained very strong. Hereinafter to determine level of contribution coefficient of determination of determinant variable  $X$  to variable  $Y$  with formula  $KP = r^2 \cdot 100\%$  = Knoww level of determination energy power or level o trust simply result of his its is 99 %. And the rest 1% determined by other variable. To test signifikasi result of  $t$  calculate is 3,45. Testing method: If  $t$  calculated from table  $t$  hence signifikansi, If  $t$  calculated from table  $t$  hence not signifikansi Based on calculation to dengn rule of level of mistake  $\alpha = 0,05$ ,  $db = n - 2 = 50 - 2 = 48$  gotten by  $t$  tables = 1,671 simply  $t$  calculate (3,45) > from  $t$  tables (1,671) or  $3,45 > 1,671$  Conclusions of correlation of variable  $X$  with  $Y$  or the relation of improvement of earnings and prosperity with usage precise technology in countryside Manado Tua districk Bunaken Town Manado is signifikan.*

*Now it can explain that the people who still using the simple technologi can increased the incoming prosperity with the government aid, instruction, and from the other solin organisation.*

**Keywords:** *earnings, prosperity, simple technologies, precise technology*

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### **I. Antecedent**

#### **Reasoning Of Writing**

Business - effort for enableness of man to be free of poorness shackle has been blazed the way by the Government through Program Instruction President about countryside lag for the agenda of assisting countrysides which still be rearward. Effort for the government gets support from because man who standart its the life still be relative low. Pass estimate Berau Center Statistic level of poorness has declines 40,08 % to become 15,08 % but poorness problem still be main problem in development. For the agenda of reaching development of secure and prosperous family from secure and prosperous and secure and prosperous pre of 1 is required development of natural resources in the countryside that is development of fishery. Fishery is resource oceanic as one of industrial pledge sector and agro sector in Sulawesi at pelita VI which its the implementation is integrated with improvement effort of quality of human resource, over comes poorness and improvement of prosperity. This thing explains that public countryside Manado Tua still be categorized Program Instruction President about countryside lag. To increase prosperity of public fisherman since Tahun 1998 had been applied equipment to catch usage precise technology with elementary gill net so that earnings increases, but becoming problems is till now public which has applied usage precise technology is not able yet to add equipment to catch the because its the public having consumptive culture so that prosperity difficult to be improved. On the contrary public which still using equipment to catch is traditional with level of low earnings and has consumptive culture.

Therefore Reppi dkk Tahun 1995) express that fisherman public main problem using traditional technology is: Scale effort for fisherman generally small Alat catches applied has not is productive and not

economic of weak fisherman in legal capital and organizer effort for level of education and skilled of fisherman generally low. Referring to the prosperity problem of fisherman public where according to census economy from Bureau center statistic The year 2002 simply in countryside Manado Tua district of Bunaken there are 375 KK is entering at public and secure and prosperous. Though public has applied usage precise technology and have been given counselling but because public which its the education is low and still having consumptive culture so that level of prosperity difficult to be improved

### **Formulation of Problem**

Level of prosperity of the fisherman public its the relationship with usage of simple technology and its the problems usage precise technology is:

- 1) Is there is the relation of usage of simple technology with earnings and public prosperity.
- 2) Is there is the relation of usage of usage precise technology with earnings and public prosperity.

## **II. Book Review**

### **Public Prosperity**

Prosperity of Public according to body coordination family plans is National (1993:54) divides family to 5 phase: Secure and prosperous pre Family that is family which is not able yet to fulfill requirement minimally like requirement of food, clothing, board and health. Phase family 1, that is family which has can fulfill basic need a minimum of in the case of clothing, food, a real basic board and health service. Secure and prosperous family of II, that is the family besides fulfilling its the basic need, earns also its the psychologis social, but is not able yet to fulfill requirement of its the expansion. Secure and prosperous family of III that is family which have been able to fulfill basic need, its the psychologis social need, requirement of its the expansion, but is not able yet to impetuous active in effort for social in area and region. Secure and prosperous family of III Plus, that is family which have been able to fulfill basic need, psychological social need, requirement of expansion at the same time follows in contributing social activity and follows is active follows the movement.

Hereinafter according to Tjiptoherianto (1997:131) arises that effort over comes poorness is rural areas is: over comes poorness of resident in lag countryside passed Inpreslag countryside. Over comes poorness through development of secure and prosperous iis area countryside is not lag. This thing explains for over comes poorness there have passed expansion of rural chartered investment counsel net passed equipment to catch fish with usage precise technology that prosperity can be improved. Thereby Sayogyjo and Pudjiwati (1983:136) arises that prosperity of public is good secure and prosperous situation of physical, bounces and social and not simply vanishing badness in certain masyarkat only. Hereinafter Tjiptoherianto (1997:129) express that the existing of program over come poorness of either through program Inpres log countryside and also secure and prosperous family refers to effort to strengthen cluster role, as known to assist familys which has owned motivation to realize secure and prosperous and happy small family has been developed program effort for improvement of earnings of secure and prosperous family. This program is support from increase ability of family through mutual company.

Earnings According To Marx in Smelser (1990:17) menyatakan that every any public in hisits historical development phase stays at chartered investment counsel field to increase earnings. In line with opinion Abdullah (1995:47) arises that civil earnings or earnings of original received by each and everyone who directly have a share in goods production process or earnings excelsior increasingly increases quality of job activity. Therefore according to Keynes electroplated by Smelser (1997:24) arises that level of earnings and employment an economics which can be evaluated from 2 first corner, level of individual production a public consisted of parts and production expended for consumer, part plus leaved over for savings. Second from the aspect of the production producer opinion? sight consisted of goods addressed to consume direct and goods addressed for investment that is goods to yield other goods and services.

To see production from two this corners Keynes makes equation following. Consumption + savings = Consumption + investment. Then Keynes arises that consumer appetite would be relative stable and that the consumer in general is not activator initiator in treatment. Side that is he assumes that at the height of production of consumer hence he will cast aside proposisi which is ever greater and production total of savings. From description is upper to explains that if when earnings increases will increase savings but many countryside publics Manado Tua influenced by cultural factor so that difficult to cast aside savings. In consequence earnings excelsior more and more requirement that is in character consumptive. Therefore according to Sagir (1985:45) express that level of direct interconnected earnings ably someone to fulfill principal requirement and social security like food, housing, education, prosperity will influence productivity.

### **Simple Technology**

According To Kast & Rosenzweg (2002:287) arises that past science and technological viewed as equipment to improve, repair human life provides for equipment man of control which more effective to natural

area physical and social. Hereinafter according to Tambunan ( 2002:80) express about technological limitation differed from advance nations. Middle small business still using stripper technology, traditional in form of old machines and equipment of production that is in character manual.

### **Usage precise Technology**

Jecques Ellul in Kast and Rosenzwarg ( 2002:289) arises that technology has predominated every field and towards to reaching of efficiency and rationality in effort for men. That way according to Rahardjo ( 1986:39) arises that audition of usage precise technology closely related to 2 thing : Firstly, as reaction of to unemployment and opportunity of jobactivity and second, relates to rare of legal capital nations to be poor. Hereinafter technology madya will be able to give big contribution at growth of Produk Nasional that is: 1). Smooths down level of prosperity of all public 2). Creates more field with active participation of all public at productive activity. 3) Increases productivity of all public. 4) Increases and extends domestic market. 5).

Quickens strukturisation toward technology.

Therefore according to Kast & Rosenzwarg ( 2002:293) arises that progress of science and technology would continuously be strength of primary and alteration. In line with opinion Tjptohirijanto ( 1997:146) express that so much science that is is not less important is engineered is partnership of business which presentation of its the practice is cooperation effort and technology diffusion engineering which in the form of effort waters down meeting of technology is circle problems of public people chartered investment counsel. This thing explains that though fisherman which has applied usage precise technology but its the productivity /eamings increases but factor because culture that is consumptive position so that its the prosperity doesn't increase. Therefore according to Sagir ( 1985:45) express that level of direct interconnected earnings ably someone to fulfill principal requirement and social security like food, housing, education, prosperity will influence productivity.

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1) Smooths down level of prosperity of all public, 2) Creates more field with active participation of all public at productive activity, 3) Increases productivity of all public, 4) Increases and extends domestic marked, and 5) Quickens strukturisation toward technology.

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### **Hypothesis**

There is the relation of assosiatif between simple technologies with earnings and public prosperity. There is the relation of co-operative between usage precise technologies and earnings and public prosperity.

### III. Purpose And Research Benefit

#### Purpose Of Research

To know how far earnings and prosperity of public countryside coast Manado Tua by using simple technology. To know are there improvement of earnings and prosperity of public by using usage precise technology.

#### Research Benefit

Result of this research earns is of benefit to fisherman public using traditional technology and usage precise technology to change attitude which is consumptive become productive culture. Result of this research earns is of benefit to on Duty Fishery and Development of countryside Public

### IV. Research Method

#### Population and Sample

Becoming Population is all publics fisherman using technology Traditional and Tecnology precise to amount to 185 fishermen. Fisherman using technology Tradisional 100 fisherman and using usage precise technology 85 .Becoming sample in this research writer takes 50 fisherman using traditional technology and 50 fisherman using usage precise technology because there are 1 family 4 to 5 people fisherman so that writer chooses 100 with different family. Number of samples is 100 responders.

#### Research Variable

In research activity consisted of two variables that is: Variable X 1 or independent variable: 1). X1 is Simple Technology 2). X2 is usage precise technology  
Variable Y is dependent variables: 1). Y1 is earnings 2) Y2 is public prosperity.

#### Definition of Operational

Prosperity of public is consisted of secure and prosperous pre family which is not able yet to fulfill requirement minimally like requirement of food, board and health. And Prosperity of public is family which has can fulfill minimum basic need. Earnings is earnings of original that is directly have a share in goods production process. Traditional technology is equipment to improve; repair human life by means of. production which manual because low education of consumptive position. Precise technology utilized was had applied equipment of machine is reached time efficiency and activity in effort for men.

Way of Data collecting, Research method is descriptively, that is associative and co-operative by using technics of survey, enquette and interview.

Way of Data Analysis By using, Correlation Product Moment. Data which collected analysed quantitatively by using correlation formula product moment pearson

### V. Result And Solution

#### Result Of Research

Fishery is oceanic resource as a above all industrial pledge sector and agro sector of fishery residing in countryside Manado Tua Districk Bunaken. Writer has performed research how earnings and prosperity of fisherman public which has applied simple technology and usage precise technology . Relates to data processing as which has been told in research methodologies. Referring to the sample amounts which has been specified at this research is 100 responders where 50 responders using simple technology and 50 responders has applied usage precise technology. Where writer has circularized questionnaire consisted of by variable X1 and variable Y then variable X2 and variable Y which of all the answers summed up and grouped. From result of the research packed into activity tables which processed has and summed up and will be obtained level of total frequency from each data with formula corelational product moment result of hisits is : Simple technology Variable and earnings variable and public prosperity.

Known : Nitrogen = 50     $\Sigma X1 = 875$      $\Sigma Y = 855$      $\Sigma X^2 = 15357$      $\Sigma Y^2 = 15357$      $\Sigma X1Y = 14969$

Asked :  $rx_y = \dots\dots\dots?$   $r^2 = \dots\dots\dots?$  solution::

$$rx_y = \frac{n(\Sigma XY) - (\Sigma X)(\Sigma Y)}{\sqrt{n\Sigma X^2 - (\Sigma X)^2} \sqrt{n\Sigma Y^2 - (\Sigma Y)^2}} = \frac{50 \cdot 14969 - (875)(885)}{\sqrt{(50)(15357 - (875)^2)} \sqrt{(50)(14969 - (885)^2)}}$$
$$rx_y = 0,149$$

To know level of determination energy? power of variable X1 and Y that is Improvement earnings and prosperity of fisherman public with simple technology in countryside Manado Tua Districk Bunaken Town Manado with formula :

$$r^2 = rx_y \times rx_y \times 100\%, r^2 = 0,149 \times 0,149 \times 100\% r^2 = 0,02 = 2\%$$

Based on result of analysis at variable X1 and variable Y1 that is Terdapat the relation of assosiatif between simple technologies with earnings and prosperity of fisherman public with simple technology in countryside Manado Tua Districk Bunaken Town Manado result of his (  $r= 0,149$ ) pertained very low. For coefficient diterminan determinant variable X to variable Y result of of 2 %. Mean improvement influence of earnings and prosperity of fisherman public with simple technology in countryside Manado Tua Districk Bunaken Town Manado equal to 2% and its the sisia 88% determined by other variable. Significance test to with formula t calculate :

$$r \frac{\sqrt{n-2}}{\sqrt{1-r^2}} = 0,149 \frac{\sqrt{50-2}}{\sqrt{1-0,149^2}} = \frac{1,0322}{1,0437} = 0,9$$

**Examination method:**

If t calculated  $\geq$  from table t hence signifikansi If t calculated  $\leq$  from table t hence not signifikansi. Based on calculation to and rule of level of mistake  $a=0,05$ ,  $db=n-2=50-2= 48$  gotten t tables = 0,1671 simply t calculate ( 1,04370) < from t tables ( 1,671) or 1,0437<0,1671. Conclusion of correlation of variable X with Y or the relation of improvement of earnings and prosperity with simple technology in countryside Manado Tua Districk Bunaken Town Manado is signifikan don't. Hereinafter to see the relation of usage precise technology variable and earnings variable and prosperity of visible public under this: Known :

Nitrogen :  $= \Sigma 50.X^2 = \Sigma 871$ .  $Y = \Sigma 855$ .  $x^2 = \Sigma 15225$   
 $XY^2 = \Sigma 14663$ .  $X^2Y = \Sigma 14941$  nitrogens  $= \Sigma 50$

Asked :  $r_{XY} ?$  : Formula :

$$r_{xy} = \frac{(n(\Sigma XY) - (\Sigma X)(\Sigma Y))}{\sqrt{(n\Sigma X^2 - (\Sigma X)^2) \{n\Sigma Y^2 - (\Sigma Y)^2\}}}$$

$$= \frac{50 \cdot 14941 - (871)(855)}{\sqrt{(50)(15225 - (871)^2)(50)(14663 - (855)^2)}}$$

$$r_{xy} = 0,996$$

Asked :  $r^2 = r_{xy} \times r_{xy} \times 100\%$ ,  $r^2 = 0,996 \times 0,996 \times 100\%$ ,  $r^2 = 99 \%$

From result of correlation analysis product moment to hence hipoteisis to express Terdapat the relation of co-operative between usage precise technologies and earnings and prosperity of public in countryside Manado Tua Districk Bunaken is calculate r is 0,996. pertained very strong.

Hereinafter to determine level of contribution coefficient of determination of determinant variable X to variable Y with formula  $KP= r^2 \cdot 100\% = r_{mengetahui}$  level of determination energypower or level of trust simply result of his (its is 99 %. And the rest 1% determined by other variable. Tests signifikasi with formula

t calculate :  $r \frac{\sqrt{n-2}}{\sqrt{1-r^2}} = 0,996 \frac{\sqrt{50-2}}{\sqrt{1-0,996^2}} = \frac{6,900}{2,265} = 3,45$

Examination method: If t calculated  $\geq$  from table t hence signifikansi, If t calculated  $\leq$  from table t hence not signifikansi. Based on calculation to dengn rule of level of mistake  $a=0,05$ ,  $db=n-2=50-2= 48$  gotten t tables = 1,671 simply t calculate ( 3,45) > from t tables ( 1,671) or 3,45 > 1,671. Conclusion of correlation of variable X with Y or the relation of improvement of earnings and prosperity with usage precise technology in countryside Manado Tua districk Bunaken Town Manado is signifikan.

Solution:

Countryside Public Manado Tua major its the work is fisherman using technology Tradisional because major is secure and prosperous pre family one or poor public. Since The year 1998 had been applied at fisherman public about gill net which is usage precise technology but not all can apply the technology because limitation of capital so that in countryside Manado Tua Districk Bunaken there are public which still using simple technology and there is also has applied usage precise technology. Pass usage precise technology and writer simple technology performs research to know does with simple technology can increase earnings and prosperity conversely does precise technology to can increase earnings and prosperity. Therefore writer wish to prove hypothesis expressing there is associative rapport between simple technologies and earnings and prosperity simply from result of analysis there is no associative rapport between simple technologies and earnings and prosperity of fisherman public in countryside Manado Tua Districk Bunaken Town Manado result of of calculate r 0,149 Pertained very strong. Hereinafter to determine level of contribution coefficient of determination of determinant variable X to variable Y with formula  $KP= r^2 \cdot 100\% =$  Know level of determination energypower or level of trust simply result of his its is 99 %. And the rest 1% determined by other variable. To test signifikasi result of t calculate is 3,45. Examination method: If t calculated  $\geq$  from table t hence signifikansi, If t calculated  $\leq$  from table t hence not signifikansi. Based on calculation to dengn rule of level of mistake  $a=0,05$ ,  $db=n-2=50-2= 48$  gotten t tables = 1,671 simply t calculate ( 3,45) > from t tables (1,671) or 3,45 > 1,671.

Conclusion of correlation of variable X with Y or the relation of improvement of earnings and prosperity with usage precise technology in countryside Manado Tua District Bunaken Town Manado is significant. This thing clearly is past science and technological viewed as equipment to improve human life provides for equipment man of control which more effective to natural area physical and social. Hereinafter in countryside Manado Tua District Bunaken Town Manado about technological limitation differed from advanced nations. Middle small industry still using stripper technology, traditional in form of old machines and equipment of production that is in character manual. On the contrary the existing of usage precise technology have been performed in countryside Manado Tua District Bunaken because these days technology has predominated every field and towards reaching of efficiency and rationality in effort for men. Hereinafter progress of science and technology would continuously be strength of primary and change because so much science that is not less important is engineered is partnership of business which presentation of its practice is cooperation effort and technology diffusion engineering which in the form of effort waters down meeting of technology is circle problems of public people economics. Thereby science and technology would continuously be strength of primary for evolution, because clearly technology already happened evolution of earnings but frequently doesn't increase prosperity for absence of attitude change. But is the existing technological has changed off the cuff behavior of which is not planned to become behavior that is intended and rational. But for countryside public Manado Tua District Bunaken which still using simple technology is not happened evolution of behavior of because there are consumptive culture. Though public which still having simple technology difficult to vie with them which has applied usage precise technology though they also follows counseling.

Besides also has been performed a program in preslag countryside to assist family having motivation to realize secure and prosperous and happy and small family which has been developed through program effort for improvement of earnings of secure and prosperous family where this program is also support from increase ability of family through mutual company. To see are there improvement of earnings of where for public which still using simple technology difficult to yield and saves because result of hisits only enough requirement to of family fundamental. To save in Bank or Koperasi difficult to be done by earnings gotten only enough requirement of fundamental to.

Thereby for public which has applied precise technology to can exploit unemployment energy and opens employment so that earnings to increase. Therefore in selection of usage precise technology closely related to reaction of to unemployment and opportunity of activity and that communication with rare of capital nations to be poor. Since implemented usage precise technology simply earnings of public increases and its prosperity increases because there are evolution of its consumptive public become public produkti, because has been performed good counseling is area fishery, education institute cooperating with local government causing can change position of public for result of its earnings is so that there are saving.

This thing explains that though fisherman which has applied usage precise technology but its productivity/earning increases but there are factor because culture that is consumptive position so that its kesejahteraan is frequently not increasingly but at one time will decline because public to return at consumptive position, causing its needs counseling that is in continue until the public earns self-supporting.. In using usage precise technology frequently there are values and position interfering in like consumptive value or position, be against productive position value and we confess it believes continueing technology progress, but we labour social control which more effective to guarantee that this really evolution improve; repairs and doesn't make matters worse from when before all. Usage of precise technology to need to be confessed will continue technological progress but constantly require is performed social control which more effective to guarantee that this evolution can improve; repair and didn't make matters worse from time before all. Because through precise technology utilized hence need to change consumptive culture become productive culture. Precise technology utilized have been acceptable by public hence can be improved again at technology madya will be able to give big contribution at growth of Produk Nasional that is smoothing down level of prosperity of all public, creates more field with active participation of all public at productive activity, increases productivity of all public, increases and extends domestic market, quickens strukturisation toward technology.

## **VI. Conclusion And Suggestion**

### **Conclusion**

From dissociation upper and result of research and solution hence earning in concluded as follows:

1. Public Manado Tua is categorized poor public so that since the year 1998 had been applied equipment to catch fish through usage precise technology with base gill net to can increase earnings and prosperity conversely there are still also fisherman public which still using simple technology because doesn't have capital.
2. From result of research according to hypothesis expressing that there is associative rapport between simple technologies and earnings and prosperity of public hence result of analysis there is no associative rapport

between simple technologies and earnings and prosperity of fisherman public in countryside Manado Tua District Bunaken Town Manado result of calculate  $r$  0,149 Pertained very strong.

3. Hereinafter to determine level of contribution coefficient of determination of determinant) variable X to variable Y with formula  $KP = r^2 \cdot 100\% = r$ mengetahui level of determination energypower or level of trust simply result of hisits is 99 %. And the rest 1% determined by other variable. To test signifkasi result of t calculate is 3,45.
4. Examination method: If t calculated  $\geq$  from table t hence signifkansi, If t calculated  $\leq$  from table t hence not signifkansi. Ecording calculation to dengn rule of level of mistake  $a=0,05$ ,  $db=n-2=50-2=48$  gotten t tables = 1,671 simply t calculate ( 3,45) > from t tables ( 1,671) or  $3,45 > 1,671$  Conclusions of correlation of variable X with Y or the relation of improvement of earnings and prosperity with usage precise technology in countryside Manado Tua District Bunaken Town Manado is signifkan.
5. Public which still using simple technology cannot increase earnings and prosperity because still having culture that is consumptive position.
6. Public using usage precise technology with various counselings can increase earnings and prosperity because can change consumptive position become productive by using saving.

### **Suggestion.**

1. The importance of fisherman public is performed counseling in continue always until self-supporting that public which still using simple technology can save to have capital to apply usage precise technology.
2. For public which has applied precise technology to need to be given counseling that they were all can maintain productive position and saves and doesn't return at consumptive position.
3. The importance of same activity between the local government and education institute for bersamasama constructs public countryside Manado Tua to can increase earnings and public prosperity.

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