

## Karang Taruna Training in Processing Wood Waste Into Sellable Goods in Nagari Koto Baru Simalanggang District Limapuluh Kota

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### ABSTRACT

Nowadays, the opportunity to get a job depends on what degree of education you have. Therefore, looking for job opportunities such as entrepreneurship is an alternative for people who have limited education in looking for a job. The Limapuluh Kota sub-district is the area with the largest coconut plantations in the Limapuluh Kota district. Apart from producing coconuts for sale, coconut trees can also be used as material for making furniture. This is a business opportunity for residents by utilizing coconut tree waste and wood waste. The solution to this condition is to provide knowledge training to young people who are not yet have a job and wood business people in the area to be able to create innovative furniture products. Of course it has a connection in reducing the number of people who are not working. The use of wood waste that can be obtained from processing coconut trees that are quite old and cannot produce good coconuts, as well as other wood waste can be utilized by creating simple furniture/decoration products that have selling value. This can certainly be a business opportunity for the community/youth of Karang Taruna who don't have a job to become competent entrepreneurs independently. Community Partnership Program activities (PKM) activities begin with conducting field observations, providing material regarding sources of wood waste, types of wood, marketing steps in selling furniture products and continue with providing training on how to process wood waste into simple furniture/decoration products. The implementation of the work is carried out directly by the community/youth of Karang Taruna, then an evaluation is carried out by looking at the results of the product work by looking at its attractiveness and aesthetics so that it can become an item of marketable value on the market.

**Keywords:** *Processing, Wood Waste, Goods*

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### INTRODUCTION

Official data from Nagari Koto Baru Simalanggang, Limapuluh Kota Regency, with a total population of 3982 people, explains that many of these people doesn't work with a percentage of 23.23%. This percentage value is the first order of the total population in demographic data based on occupation with a total of 925 people. Demographic data based on these jobs can be seen in the table below.

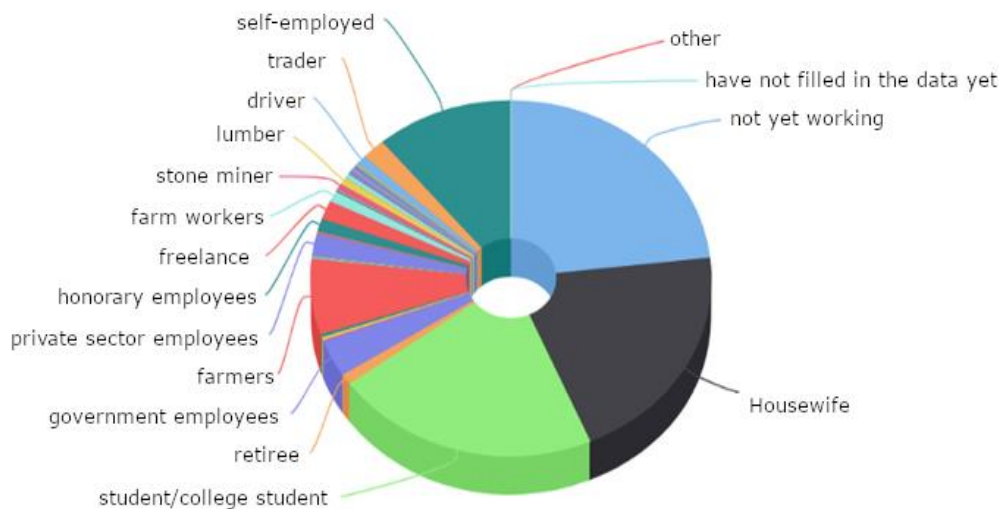


Figure 1. Demographic Data

BPS data for 2020 shows that the Limapuluh Kota districts are plantation areas consisting of coconut, rubber areca nut, coffee, gambier tobacco, cloves and others. This data shows that the Limapuluh Kota districts are the areas that have the largest coconut plantations, namely ±5184.00 hectares.

Tabel 1. Plantation Area Data

Sub-district - district	Area of people's plantations according to sub-districts in Limapuluh Kota district, 2020							
	coconut	betel nut	rubber plant	robusta coffee	tobacco	gambier	clove	enau
	2020	2020	2020	2020	2020	2020	2020	2020
Payakumbuh	388,00	109,00	22,00	22,00	-	380,00	9,00	25,00
Akabiluru	150,00	33,00	269,00	124,00	8,00	-	35,00	-
Luak	223,00	90,00	4,00	34,00	5,00	-	28,00	38,00
Lareh Sago Halaban	299,00	94,00	719,00	8,00	8,00	142,00	23,00	75,00
Situjuh Limo Nagari	245,00	66,00	21,00	41,00	99,00	-	26,00	39,00
Harau	1 160,00	36,00	184,00	4,00	2,00	1 095,00	13,00	8,00
Guguak	1 030,00	184,00	110,00	57,00	5,00	-	99,00	19,00
Mungka	933,00	39,00	129,00	25,00	-	925,00	87,00	40,00
Suliki	198,00	43,00	82,00	90,00	10,00	160,00	34,00	8,00
Bukik Barisan	132,00	212,00	868,00	183,00	106,00	2 668,00	61,00	98,00
Gunuang Omeh	65,00	30,00	2,00	105,00	4,00	-	31,00	39,00
Kapur IX	176,00	206,00	6 158,00	-	-	7 751,00	-	-
Pangkalan Koto Baru	185,00	112,00	9 006,00	10,00	-	4 427,00	-	-
Lima Puluh Kota	5 184,00	1 254,00	17 574,00	703,00	248,00	17 548,00	446,00	389,00

Source: BPS 2020

Apart from producing coconuts for sale, coconut trees can also be used as material for making furniture. This is also one of the benefits that can become a business opportunity for these residents by utilizing coconut tree waste and wood waste from making wooden furniture. People process coconut wood by making various kinds of household furniture, such as tables, chairs, cupboards. The remaining/waste from the processing of furniture manufacturing has not been utilized properly by business actors or the community. The users of this waste are still categorized as simple, where they only process coconut leaves such as broom sticks and palm fiber. The processing of coconut trees to make wood by the local community can be seen in the picture below.



Figure 2. Coconut Wood Processing

From the situation analysis above, it can be interpreted that there are several existing problems. The first problem is that official data from the Koto Baru Simalanggang village, Limapuluh Kota Regency, explains that many of these communities have a population of 23.23% who do not have jobs. This percentage value is the first order of the total population. Of course it will have an impact on the economic level of the area. Therefore, looking for job such as entrepreneurship is an alternative for residents in looking for job opportunities.

The next problem is regarding wood waste. Nagari Koto Baru is an area that grow coconut trees. Processing coconut trees is not only limited to producing coconuts, but how to maximize the trees into home furnishings. Wood waste is leftover pieces in various shapes and sizes that must be sacrificed in production because they cannot produce products that have economic value. Utilizing wood waste that can be found from furniture makers' work or shop waste can be utilized by creating simple furniture/home decoration products that have market value.

Solusi dari permasalahan tersebut, berupa pelatihan masyarakat/pemuda karang taruna kota dalam menciptakan produk furniture/hiasan rumah yang memiliki nilai jual di pasaran. Pengelolaan barang limbah menjadi produk bernilai jual menjadi peluang usaha yang menjanjikan, namun harus didukung dengan pengetahuan, inovasi dan kreatifitas yang baik dalam menghasilkan produk sesuai dengan keinginan masyarakat yang menjadi sasaran penjualan. Selain memberikan pelatihan mengenai cara pengolahan limbah kayu, juga dengan memberikan pengetahuan dan pemahaman kepada karang taruna, masyarakat dan pelaku usaha lainnya dalam strategi memasarkan produk. The solution to this problem is a training for the city community/youth in creating furniture/home decoration products that has market value. Processing waste goods into marketable value products is a promising business opportunity, but it must be supported by good knowledge, innovation and creativity in producing products according to the wishes of the people who are the target of sales. Apart from providing training on how to process wood waste, it also provides knowledge and understanding to youth groups, the community and other business actors in product marketing strategies.

## IMPLEMENTATION METHOD

The method of implementing activities is carried out by making a plan starting from analyzing partner problems and looking for solutions to the problems. The stages of implementing this activity are:

### A. Preparation

Preparation started by coordinating with Nagari Koto Baru Simalanggang, Limapuluh Kota Regency, youth youth organizations, as well as timber business actors. Then proceed with determining the schedule and training participants, preparing materials regarding wood sources, types of wood and wood processing steps, then preparing several examples of products needed to demonstrate the work of making simple furniture/decoration products, making banners and preparing seminar kit for training participant.

### B. Procurement of Materials and Equipment

The implementation of this activity requires materials in the form of waste and additional wood to demonstrate the product as a material with selling value as well as examples of simple furniture/decoration products that have been prepared in advance. The equipment needed is in the form of support for product manufacturing work such as portable thickening crabs, saws and other needs.

### C. Implementation

The training activities took place at the Wali Nagari of Koto Baru Simalanggang, Limapuluh Kota Regency. This stage aims to realize the activity plan, which outlines the implementation of activities as follows:

#### 1. Opening

The opening of the activity was carried out by the PKM team and accompanied by the youth leader of Karang Taruna, wali and nagari staff and attended by the training participants.

#### 2. Providing Training Materials

The training material is provided by practitioner who are competent in the practical field of processing wood materials to produce a product as well as marketing strategies in product processing. The planned material topics include understanding the meaning of wood, types of wood, places to look for and choose wood waste that can be used.

#### 3. Product Manufacturing Demonstration

Product making demonstrations are carried out by the PKM team which can be directly practiced by training participants in making simple furniture/decoration products. The training participants were 30 young youth organizations and wood business actors.

#### 4. Evaluation of products and activities

Evaluation consists of looking at the results of products that have been made by participants, by looking at their attractiveness and aesthetics so that they can become valuable items on the market. To evaluate activities by having a simple discussion to find out the level of opinion of the nagari guardians and participants regarding the



activities that have been carried out.  
The method for implementing this PKM activity can be seen in the following figure:

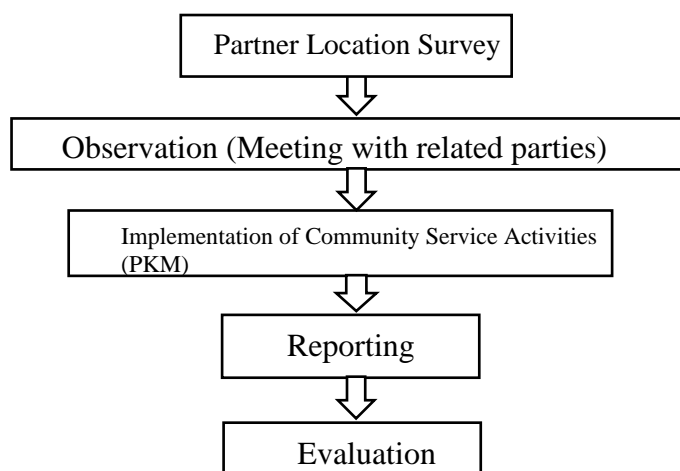


Figure. Sequence of PKM Implementation Methods

## RESULTS AND DISCUSSION

Community Partnership Program activities (PKM) have been carried out according to the planned method. The implementation of this program activity was well received by the nagari guardians, staff and training participants. The results that have been obtained in implementing activities include:

### a. Providing Training Materials

Providing material starts with socialization regarding sources of wood waste in the area which have the potential to become goods of sale value, followed by providing an understanding of the types of wood waste that can be used to how to make the results of processing wood waste into goods of sale value to the marketing process so that it can create a community that entrepreneurship.



Figure 4. Delivery of Material by Resource Persons

### b. Product Manufacturing Demonstration

The next activity took the form of a demonstration in making products sourced from wood waste. The demonstration was carried out directly by technicians and a service team who

already have expertise in wood processing. The demonstration started by providing a brief theory about the working steps in painting, planing and assembling wood products into finished goods.



Figure 5. Wood Painting Demonstration

**c. Implementation of Wood Waste Processing Practices by Participants**

Participants carry out practical activities by dividing them into 3 large groups. Where each group practices the correct steps in making wood waste into finished goods. The participants' practical steps were carried out in accordance with the instructions given by the technician in the previous demonstration stage. The results of the participants' practical implementation were in the form of making tissue boxes and clothes hangers that had aesthetic value and were worth selling.



Figure 6. Implementation of Product Manufacturing Practices

**d. Product and Activity Evaluation**

The final activity in implementing this community service program is carrying out activity evaluations by having simple discussions with nagari guardians and training participants. Evaluate practical work by looking at the alignment, neatness of the planing results, sturdiness, painting results and seeing the attractiveness of the resulting product. As a result of this discussion, in general the wali nagari and participants hope that similar training can be carried out again to develop the potential of other resources in the area.



Figure 7. Evaluation of Participants' Product Results

## CONCLUSION

Community Partnership Program activities in the Koto Baru Simalanggang village, Limapuluh Kota Regency have been carried out according to plan. From this activity, of course it will increase the knowledge of Karang Taruna in terms of creating innovations in simple furniture/decoration jobs, become a business opportunity for Karang Taruna who have not job /don't work to become competent entrepreneurs independently, and can utilize and reduce used furniture wood waste. become goods of sale value.

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