



# **Experiences Developing Community Based Forest Management to Support REDD+ Implementation in Meru Betiri National Park, Jember, East Java, Indonesia**

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## **Common Purpose :**

- **To contribute to reducing emissions from deforestation and forest degradation and to enhancing forest carbon stocks through enhanced community participation in conservation and management of MBNP.**

## **Specific purposes :**

- **Increase community participation in rehabilitating forest degradation within rehabilitation zone and thus increase community welfare.**
- **Increase community participation in preventing deforestation, degradation and biodiversity loss.**
- **Stronger partnership with stakeholders through integrating local government policy with the national park management to support local initiatives regarding to conservation dimension and sustainable development of villages surrounding the national park.**



# Description of location

MMNP is located in southern part of East Java province and surrounded by the districts of Jember and banyuwangi with relatively high accessibility



## Milestone of CBFM in Meru Betiri National Park (MBNP)

<b>Transition Period (1993-1995 : 7 ha)</b>	<b>Transformation Period (replication: 1999: 4023 ha)</b>	<b>Emmanation Period</b>
<ul style="list-style-type: none"> <li>• Assessment (choose of village)</li> <li>• Approach to key persons</li> <li>• Identify of problems</li> <li>• Establish of forest farmer group</li> <li>• Build of demplot 7 ha</li> <li>• Making of code of conduts</li> <li>• Capacity building (training, comparative study etc.</li> </ul>	<ul style="list-style-type: none"> <li>• MoU with MBNP</li> <li>• Development of agroforesty</li> <li>• Economic development from agroforestry</li> <li>• Establish common enterprise</li> <li>• Development of partnership</li> <li>• Changing o\ of behaviors</li> </ul>	<ul style="list-style-type: none"> <li>• Selected become DA REDD+</li> <li>• Registred to get sertification of Plan Vivo standard</li> <li>• Visiting guests from inner and outer countries for rresearch /study comparative</li> <li>• Next.....?</li> </ul>



# Scope of Activities :

- **Stronger of forest management in rehabilitation zone**
- **Development of Forestry Entrepreneurship**
- **Raising awareness of community and student to REDD+ and climate change**
- **Development of Partnership**
- **Facilitate of Study Comparative from Indonesian people and/or abroad peoples**
- **Development of PES Trial by Plan Vivo Standard**





## Milestone of Rehabilitation Activities

- 1995 : Pilot project of medicinal agroforestry model : 7 ha, 43 Head of Families, 1 village (2 FUGs), 4 species.
- 1999 - Now : Rehabilitation of critical land in rehabilitation zone  $\pm$  2775,3 ha, 3556 Head Families, 4 Villages (104 FUGs), 34 species (economically potential species for community benefit and protection conservation of the MBNP).





**Including of Forest Management in Rehabilitation Zone : Seedling, Planting, Caring and Protecting, Participatory Mapping, Identification of Agroforestry Types, Carbon Accounting, Registrating sertification of Plan VIVO Standard**





# PARTICIPATORY MAPPING

Mapping of rehabilitation zone managed by farmers of Curahnongko

Include :

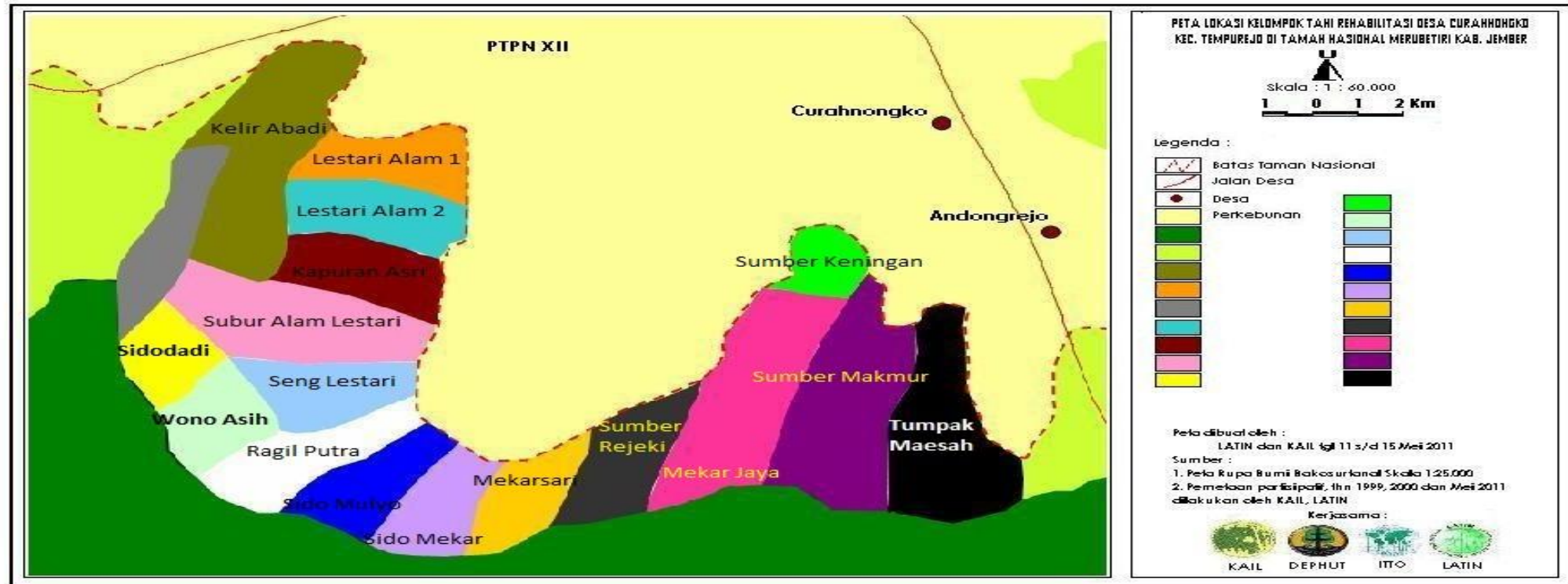
1. The boundary of forest group land.
2. The boundary of individual land.





# Mapping Result

## Maps of Individual Groups (18 groups) from Curahnongko village in Rehabilitation Zone



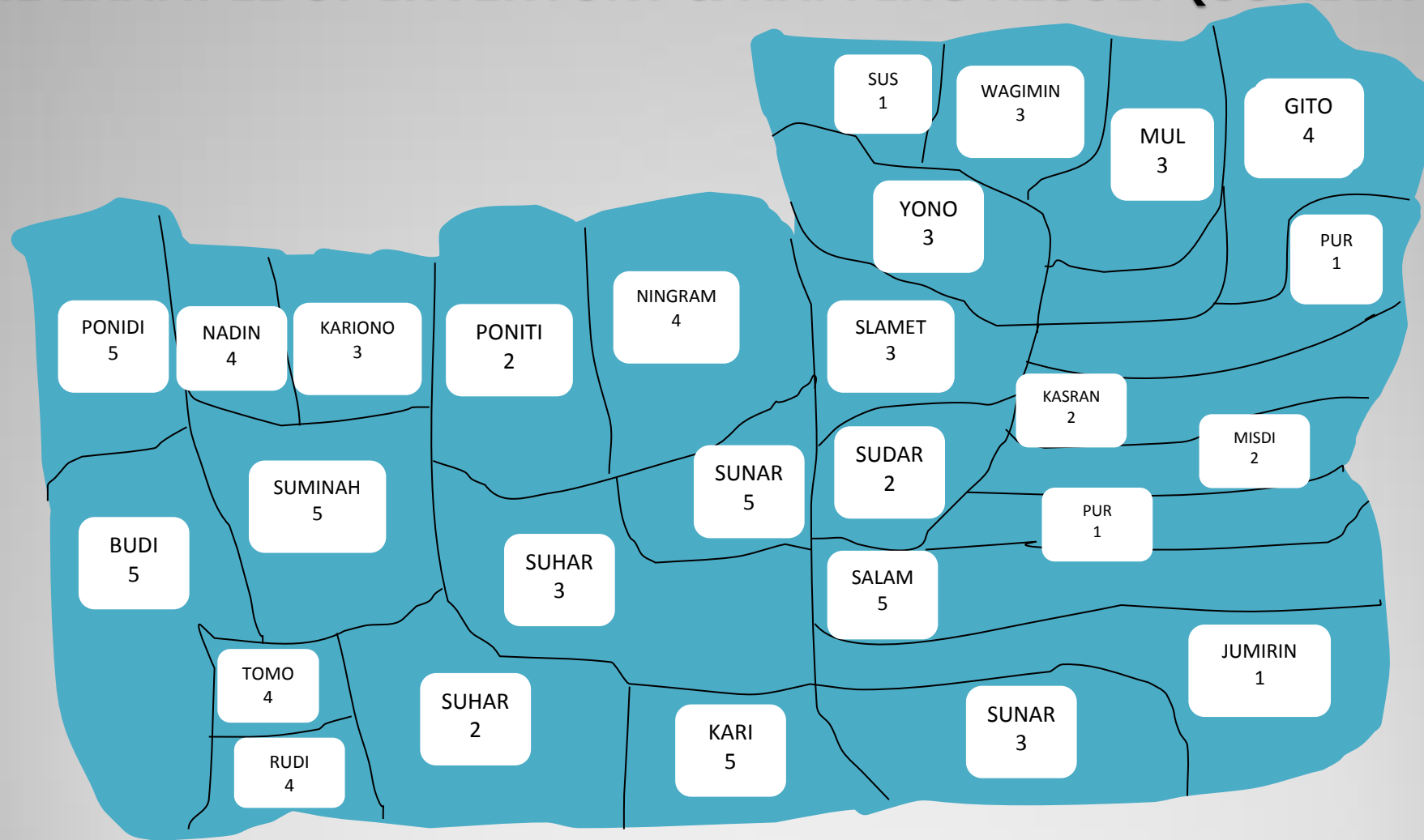
## MAPPING OF AGROFORESTRY TYPES

- Identify species of trees and counting number of trees planted in rehabilitation zone.
- Decided typology of agroforestry.



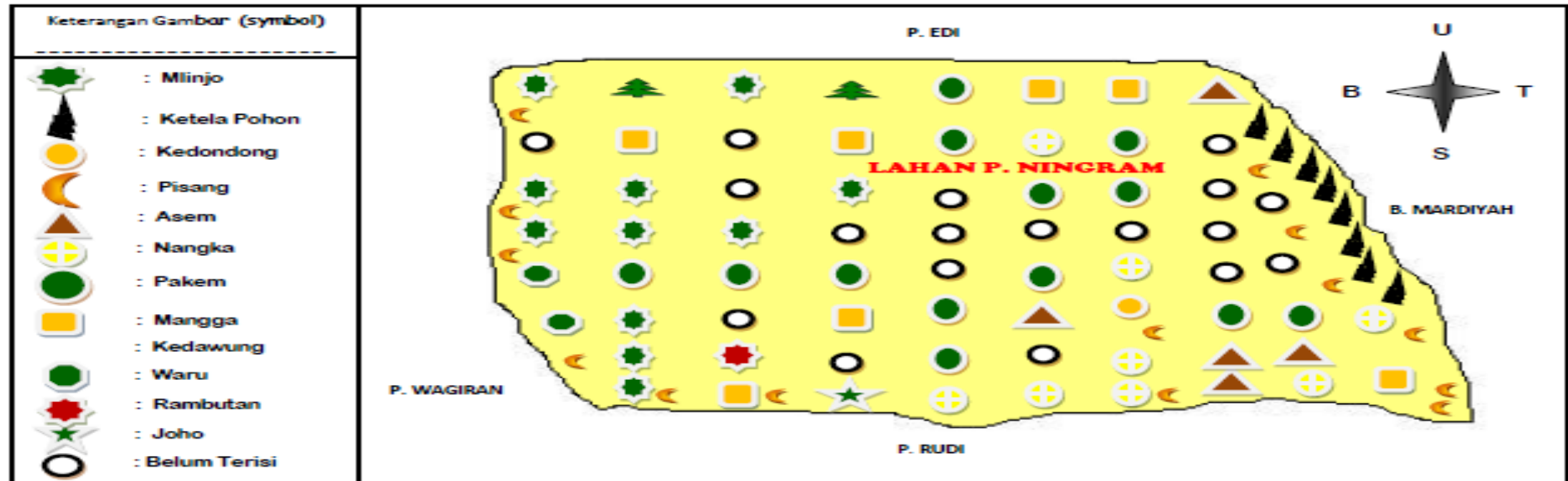


# THE EXAMPLE OF INVENTORY & MAPPING RESULT (SUMBER MULYA)



# The example of inventory result of agroforestry (managed by Mr. Ningram)

Denah/Gambar Sketsa lahan Garapan P. Ningram



Keterangan Lahan Garapan \*

Batas sebelah Barat : P. Wagiran

Batas sebelah Timur : B. Mardiyah

Batas sebelah Utara : P. Edi

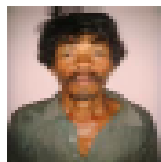
Batas sebelah Selatan : P. Rudi

Curahnongko.....20.....

(Ningram)



**KETERANGAN ANGGOTA & KELUARGA  
KELOMPOK TANI REHABILITASI (SPKP)**



No : 01  
 Nama Lengkap : NINGRAM  
 Tempat/ Tanggal Lahir : Jember, 12 Mei 1966  
 Alamat : Dusun No. 9  
 No.....Rt 6 /Rw 12  
 Agama : Islam  
 Pekerjaan : Tani

**I. Jumlah Tanggungan Keluarga : 4 Orang :**

No	Nama	Umur	Jenis Kelamin	Pendidikan	Keterangan
1	Wani	35	P	SD	Istri
2	Eko	19	L	SD	Anak I
3	Wanto	12	L	SD	Anak II
4	Nuril	10	L	SD	Anak III

\* L = Laki-laki ; P = Perempuan

**II. Keterangan Lahan Garapan Di Dalam Hutan :**

- a. Nama Kelompok Tani : Sumber Mulya
- b. Nama Ketua Kelompok Tani : Suminah
- c. Nama Lokasi Blok Garapan : Blok No. 9 No Petak.....
- d. Luas Garapan : 0,25 Ha, Jml satu Garapan

Dengan sesungguhnya saya memberikan keterangan  
 Curahnongko.....20.....

Mengetahui

Ybs

(Eni Ayu A. S.Pd) (Bahrudin) (Suparman)  
 Kep Desa Curahnongko Ka Resort Ketua SPKP

(Ningram)  
 Anggota Kelompok Tani

**III. Jenis Tanaman di Lahan Garapan Rehabilitasi :**

**a. Tanaman pokok**

No	Jenis tanaman	Jumlah (pohon)	Tanam (tahun)	Keterangan
1	Mlinjo	12	2002	
2	Kedawung	2	1999	
3	Pakem	13	1999	
4	Asem	5	1999	
5	Nangka	8	2002	
6	Mangga	7	2002	
7	Waru	2	2002	
8	Rambutan	1	2002	
9	Joho	1	2002	
10	Kedondong	1	2002	

Total Tanaman yang seharusnya	70 Pohon	100%
Tanaman yang sudah ada	52 Pohon	74%
Tanaman yang belum ada	18 Pohon	26%
<b>Termasuk dalam lahan Tipe IV</b>		

**b. Tanaman Lainnya\*\* (seperti ; Pisang, Tanaman Obat ) :**

No	Jenis tanaman	Jumlah (pohon)	Umur (tahun)	Keterangan
1	Pisang	15		15 rumpun
2	Ketela pohon	1		1 baris

**IV. Tanaman Berbagi/ Sharing**

No	Jenis tanaman	Jumlah (pohon)	Umur (tahun)	Keterangan (Nilai Sharing)

# Six types of agroforestry with its economic value in Curahnongko village

No.	Type of agroforestry	Density (pohon/ha)	Number of Species	Ex	Income/th/ha (Rp)
1	No trees, crops only	0	0	Mr. Tego	12.630.000
2	A few trees + croops	< 50	< 5	Mr. Misto	19.780.000
3	Rather dense trees + croops	51 - 100	6 to 10	Mr. Parman	7.902.000
4	Dense trees + croops	101-150	11 to 15	Mr. Suparsis	6.960.000
5	Dense trees + medicinal undergrowth	151-200	16 to 20	Mr. Sirum	30.749.200
6	Dense trees without croops + medicinal undergrowth	> 151	> 11	Mr. Pin	10.440.000



# Number of Curahnongko farmers who access rehabilitation zone in MBNP

Typology of Agro-forestry	Number of Farmers
Type 1	120
Type 2	75
Type 3	148
Type 4	170
Type 5	188
Type 6	49
	700

# Result of Participatory Mapping and Agroforestry Identification

Type I (120 farmers)



Type 2 (75 farmers)





Type 3 (148 farmers)



Type 4 (170 farmers)





Type 5 (188 farmers)



Type 6 (49 farmers)





# Incentive scheme (PINTAR)

- It has been implemented through pilot project since 10 June 2012:
  - 50 farmers -> 6 grade
  - Start from Rp 15.000,- per person per month for economy incentives for 1 year scheme
  - Work with local shop in Curahnongko village
  - Try to use identity card
  - Fund have been collected : Rp 9.000.000,- plus USD 500 from individual donatur

# Development of Forestry Entrepreneurship

- **Developing the common enterprise to handle collective marketing the result harvesting from forestry plants and agricultural crops**
- **Processing medicinal plants become herbal medicine**
- **Processing jackfruits become dry jackfruit**





- **Facilitate the marketing of bananas through common enterprise of Multi Usaha Lestari (sustainable of multy-trade).**



# Step of Processing Herbal Medicines

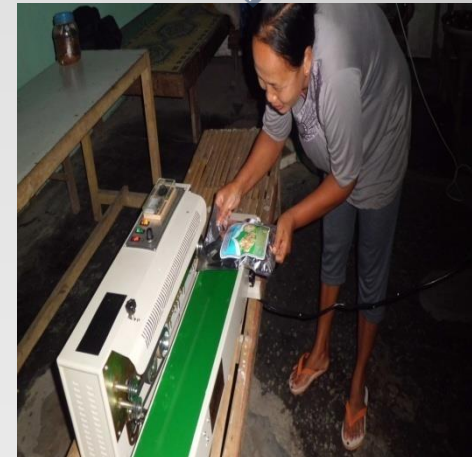
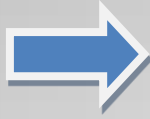




# **The List of Herbal Medicine Produced by group family medicinal garden (SUMBERWARAS)**

- ASAM URAT
- AMBIEN
- SEHAT PERKASA
- RAPET WANGI
- PENYUBUR KANDUNGAN
- PEGEL LINU
- DARAH TINGGI
- KEPUTIHAN
- DIABETES
- INSTAN TEMULAWAK
- INSTAN KUNIR
- INSTAN LIDAH BUAYA
- KANKER
- KENCING BATU
- KOLESTEROL
- KUNYIT ASAM
- PELANGSING
- TIPES

# Step processing of jackfruit become jackfruit chips





# Product networking (herbal medicines and jackfruit chips)



# Raising awareness of community and student to REDD+ and climate change

**Community organizer teach seedling to students**



**Students plant the trees**





# Planting activities by forest ranger, KAIL, farmers and local government





# Training of climate change and REDD+, include young puppet player





# Puppet show with REDD+ and climate change issues



# Training of climate change and its impact to woman leader







# Development of Partnership



- **Build cooperation with stakeholders within forest management of MBNP**
- **To support contribution of stakeholders toward community development and village conservation.**



# Facilitate visiting guest from abroad



Visiting from american (Bob Solar)



Visiting of students from Japan



students from south korea



Visiting from Seven&i Holding in Japan,(Chiharu Akatsuka)

**THANK YOU**