

Low Carbon Asia Research Network (LoCARNet) Annual Meeting 2018  
Jakarta, November 21<sup>st</sup> - 22<sup>nd</sup> 2018



**FIRE FREE VILLAGE/DESA MAKMUR PERDULI API (DMPA):  
Partnership between Corporate and Community to prevent  
Fire and to develop Community Welfare**

by

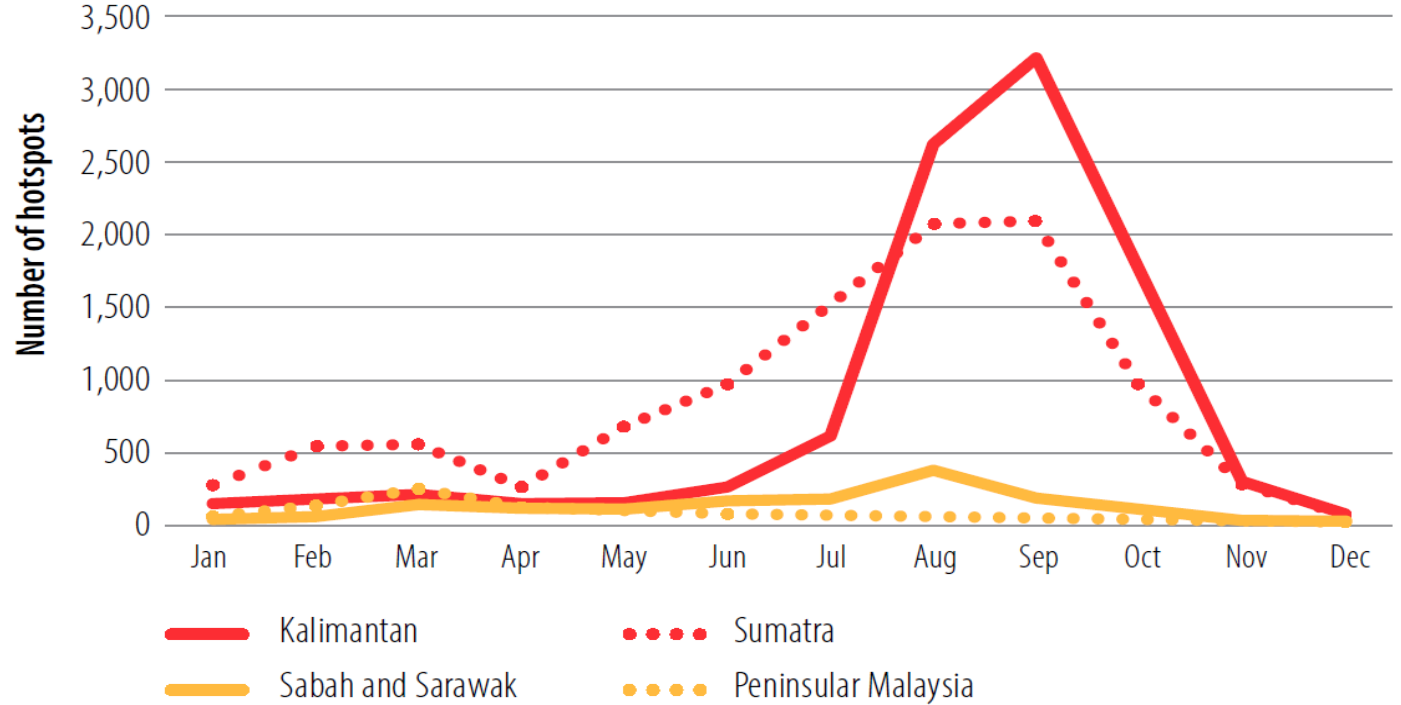
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# CONTENT

- Programme Background
- Programme Objectives
- Programme Activities:
  1. Fire Management,
  2. Fire Alert Community,
  3. Integrated Ecological Farming
- Rewards Realisation
- Results & Outlook



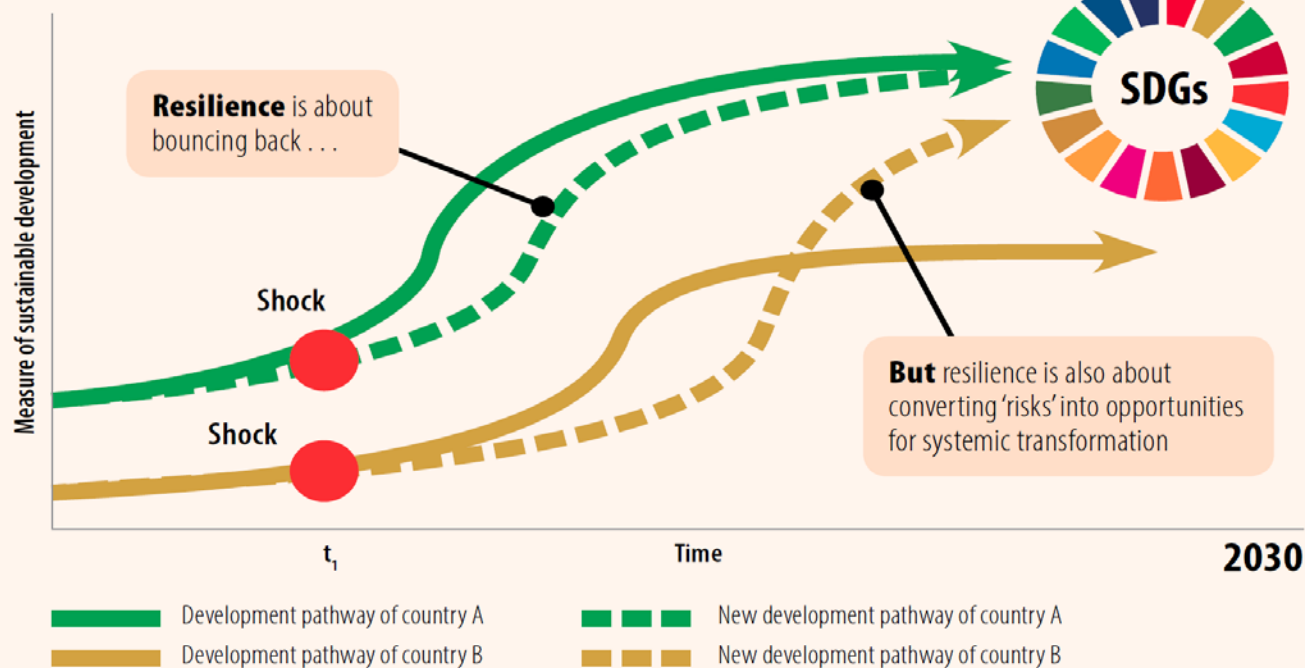
# FOREST AND LAND FIRE IN INDONESIA



# BOUNCING BACK TOWARDS SUSTAINABLE AND RESILIENCE SOCIETY



Figure 1.2 Sustainable development pathways and resilience



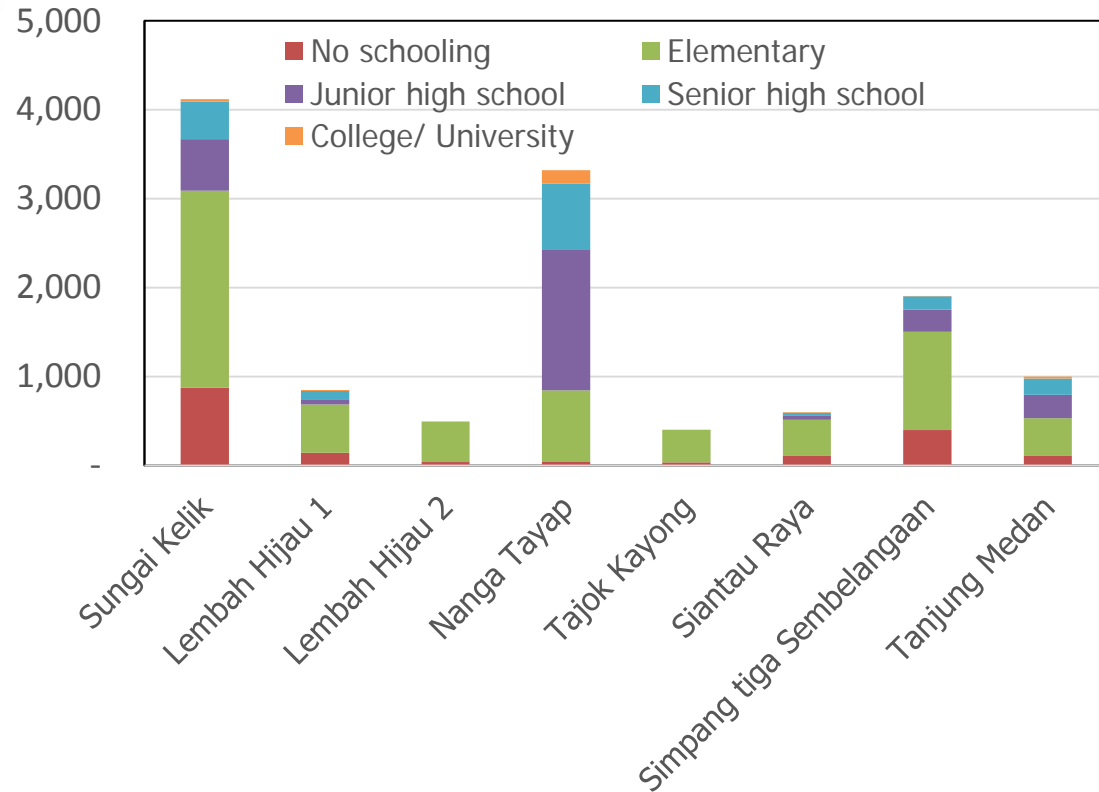
# PROGRAMME OBJECTIVES

## Objectives:

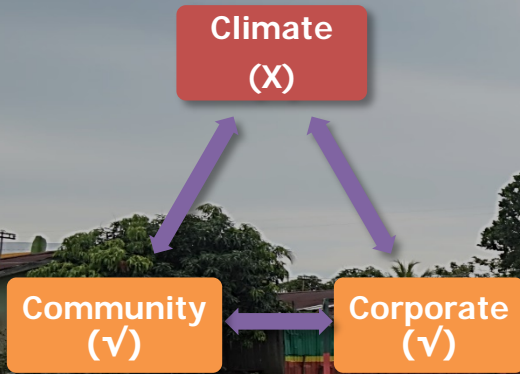
1. Building synergies and positive collaboration between “government, community and corporate”.
2. Achieving zero burning, either inside corporate concession area or surrounding village community.
3. Enhancing economic and community welfare.

### Three Focus areas:

- Fire Management
- Fire Alert Community
- Integrated Ecological Farming



# FIRE MANAGEMENT IMPLEMENTATION IN PT. AGROLESTARI MANDIRI (AMNL)

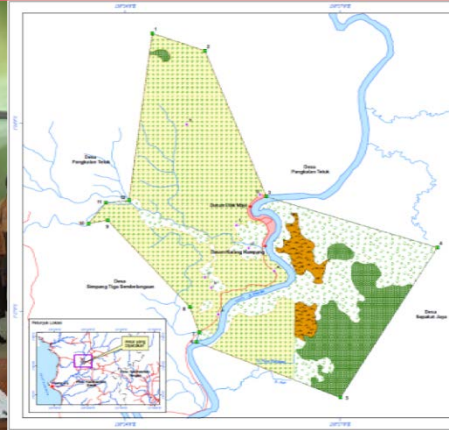


1. Emergency Response Team
2. Fire Response Equipment
3. Fire Prevention and Fire Response Infrastructure
4. Early Warning System



# FIRE ALERT COMMUNITY

1. Socialization of Programme
2. Declaration
3. Developing Indicative Map of the Village
4. Fire Alert Community establishment
5. Provision of Fire Response Instruments
6. Early detection
7. Socialisation of fire prevention to schools and orchards
8. Pilot Project Integrated Ecological Farming
9. Monitoring and Evaluation
10. Rewards



# REWARDS REALIZATION



1

Fire Alert Community post Tanjung Medan village



2

Mosque in Lembah Hijau 1 village



3

School fence in Tj. Toba, Sembelangaan village



4

Road hardening in Siantau Raya village



5

Mess of Tajok Kayong village



6

Malay Tradition and Culture building in Nanga

Tayap district



# INTEGRATED ECOLOGICAL FARMING



1. Socialisation
2. Baseline survey
3. Program me planning
4. Field school
5. Implem entation
6. Replicati on

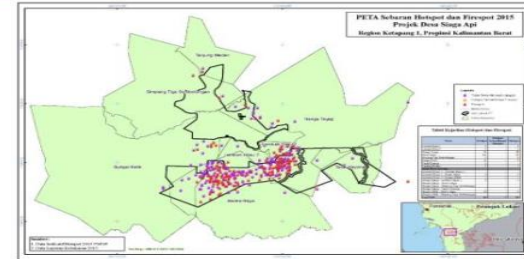
# INTEGRATED ECOLOGICAL FARMING IN LEMBAH HIJAU 2 AND TAJOK KAYONG VILLAGES



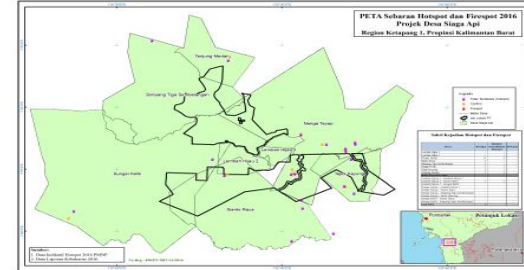
# RESULTS OF FIRE ALERT VILLAGE

Villages	2015			2016			2017		
	Hotspot	Hotspot confirmed as Firespot	Firespot	Hotspot	Hotspot confirmed as Firespot	Firespot	Hotspot	Hotspot confirmed as Firespot	Firespot
Lembah Hijau 1	8	-	9	-	-	-	-	-	-
Lembah Hijau 2	6	-	2	-	-	-	-	-	-
Nanga Tayap	51	-	40	13	2	-	3	2	-
Siantau Raya	132	-	99	2	-	-	3	2	-
Simpang Tiga Sembelangaan	2	-	2	1	-	-	1	-	-
Sungai Kelik	11	-	5	2	1	-	3	-	-
Tajok Kayong	2	-	-	4	1	-	2	2	-
Tanjung Medan	1	-	1	1	1	-	-	-	-
Jumlah	<b>213</b>	-	<b>158</b>	<b>23</b>	<b>5 *</b>	-	<b>12</b>	<b>6 *</b>	-

2015



2016



2017



\* Community based fire on land opening

## Case 1: Mr. Yatimin (60 years old)

- Member of learning farm Sinar Harapan.
- In 2017 he using intercropping method for vegetable farming.
- 300 m<sup>2</sup> garden earn 23.8 million IDR (~1,779 US\$).
- Could generate additional income and save the household expenses

## Case 2: Mr. Bambang (34 years old)

- In 2017 he planted the chilly crop on his 300 m<sup>2</sup> backyard.
- With 6 plots, 1 kilogram chilly/ plot every week starts from the 3<sup>rd</sup> - 12<sup>th</sup> month. The chilly price is 80,000 IDR per kilogram.
- Could generate additional income 19.2 million IDR (~1,435 US\$) or 1.6 million IDR (~119.6 US\$) per month.





## DESA MAKMUR PEDULI API

Fire free programme for villages that combines fire prevention, conservation and food security

Ketapang, West Kalimantan



Partnership with **TANJUNGPURA UNIVERSITY** to carry out peat conservation project

**±2,600 ha** of peat conservation area  
Included in the forest conservation area

**±3,500 ha** of forest conserved in Ketapang, West Kalimantan  
of 72,000 ha in Indonesia

### CONSERVATION



**±85,500** seedlings from 10 species ready for nursery at the peat conservation area

### 8 VILLAGES

\* 9 other villages in Jambi  
\* 5 other villages in Riau



**75** Trained Emergency Response Personnel  
of 10,415 personnel in Indonesia

### FIRE PREVENTION AND RESPONSE



**373** Canals blocked  
**18** Fire towers  
**15** Water Reservoir  
**10** Fire command posts

**5** Water container tanks  
**9** Water pumps  
**18** Portable Pumps  
**1** Fire truck

### Community Empowerment

Reward for villages: **8** Villages / **100** Mill per village  
**120** Masyarakat Siaga Api

**24** schools reached out to educate students regarding the danger of clearing lands with fire

**3** Pilot villages ecologically integrated farming

### Training

**>60** members  
**70%** women

### FOOD SECURITY



**400 kg** for **5** months  
Watercress, spinach, chinese cabbage, chili, soybeans

Benefits Savings: **IDR 300,000** per family per month  
Additional Income: **IDR 500,000** per family per month



**Terima kasih**

