

# **ASEAN Peatland Forests Project**

## **CASE STUDIES, SPECIFIC ACHIEVEMENTS AND LESSONS LEARNED in INDONESIA**

**Terminal Evaluation Workshop**  
**10 November 2014**

Organized by:



Ministry of Environment  
Republic of Indonesia

Funded by:



Investing in rural people

Supported by:



# Introduction

National Project Executing Agency: **The Ministry of Environment**

Total budget for the Country Component: **USD 1,200,000**

Project period: **01/10/2010 – 31/12/2014**



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# NPIC & LPIC Meetings



## NPIC Member

1. MoE
2. MoF
3. MoA
4. MoHA
5. Bappenas
6. Wetland International – IP



## LPIC Member

1. BLH
2. Bappeda
3. Agriculture
4. Public Works
5. NGO
6. Private companies



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# Component Descriptions

The Indonesia Component has five outcomes:

- ☐ **COMPONENT SUB-OUTCOME 1:** Capacity of human resources and institutions related to peatland management in Indonesia strengthened
- ☐ **COMPONENT SUB-OUTCOME 2:** The degradation of peatlands in Indonesia minimized
- ☐ **COMPONENT SUB-OUTCOME 3:** Key stakeholders working together to address rehabilitation and sustainable management of targeted peatlands in Riau and West Kalimantan
- ☐ **COMPONENT SUB-OUTCOME 4:** Sustainable peatland management related to biodiversity and climate change in selected peatlands benefiting local stakeholders
- ☐ **COMPONENT SUB-OUTCOME 5:** Project management



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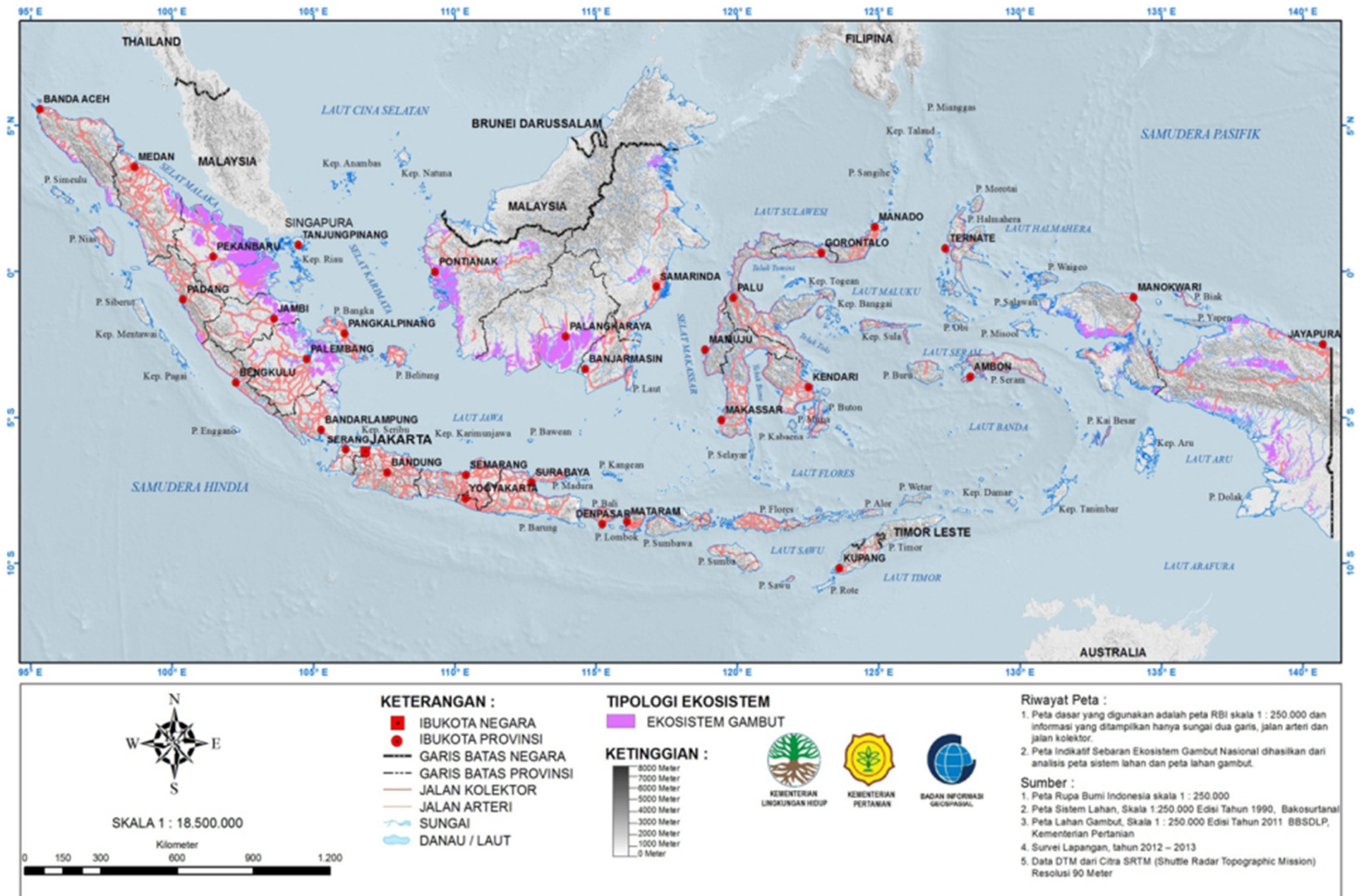
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# **Major Recent Policy Achievements Relevant to Peatland Management**

- RAN-GRK. Presidential Regulation on the National Action Plan in reducing GHG emissions No 61/2011
- Extension of President Instruction (Inpres) on Moratorium on Granting of New Licenses and Improvement of Natural Primary Forest and Peatland Governance (From No. 10/2011 and extended under No. 6/2013 (until May 2015))
- REDD + Management Agency (BP REDD+) is a ministry-level agency established through Presidential Decree No. 62/2013 for guarding the decline of the deforestation rate, renewing governance and transparency in the management of natural resources in Indonesia
- Government Regulation on Swamp (PP Rawa No 73/2013). This new swamp regulation has been synchronized with Environmental Law No 32/2009 and the Peatland Regulation No 71/2014
- Government Regulation for the Protection and Management of Peatland Ecosystems No 71/2014 (PP Gambut)



# PETA INDIKATIF SEBARAN EKOSISTEM GAMBUT NASIONAL



# Main issues in PP No 71/2014

## Government Regulation for the Protection and Management of Peatland Ecosystems

Covers the following:

- General Considerations (Articles 1-3)
- Planning (Articles 4-19)
- Utilisation (Articles 20-21)
- Control (Articles 22-32)
- Maintenance (Article 33-35)
- Supervision (Articles 36-39)
- Administrative Sanctions (Articles 40-44)
- Transitional Arrangements (Article 45)
- Closing (Articles 46-47)

**Article 23 (3), peat ecosystems under development status is categorized as damaged** (rusak), if:

- (a) peat ground water table decreased more than 0.4 m depth from peat surface, and
- (b) the pyrits and/or quartz sand under the peat are exposed.

### Article 9.2, peat ecosystems functions

classified into two: (a) peat ecosystems for protection purposes (*fungsi lindung*) and (b) peat ecosystems for development/cultivation purposes (*fungsi budidaya*) .

### Article 9 (3,4), the criteria for protection

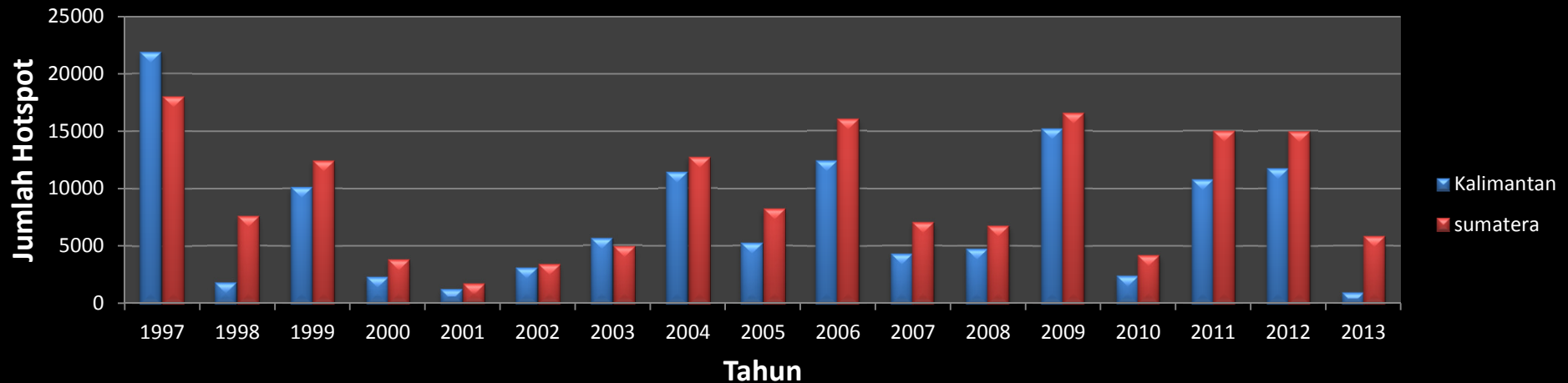
include:

- A minimum area of 30 percent of the total area of the peatland hydrological unit (KHG) which located on peat dome and it surrounding (Article 9 (3)).
- If beyond the core 30 percent of KHG, followings are found : a) Peat > 3 m, b) Specific or endemic genetic resources, c) Protected species and d) Peatland that is already protected in existing spatial plans

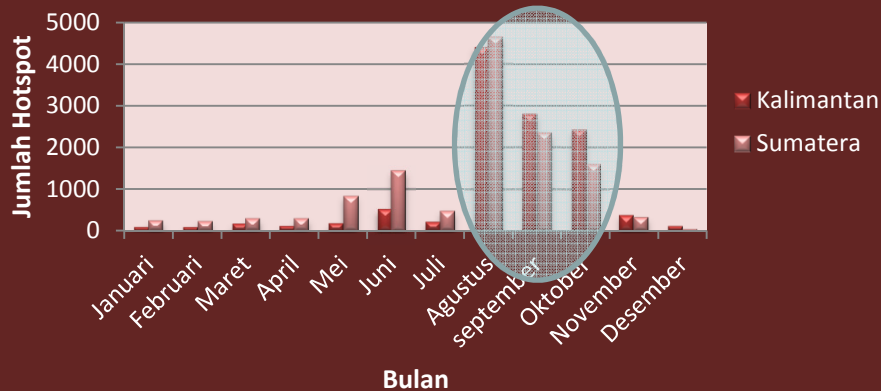
# Major Challenges:

## Number of hotspots & burning periods shifted

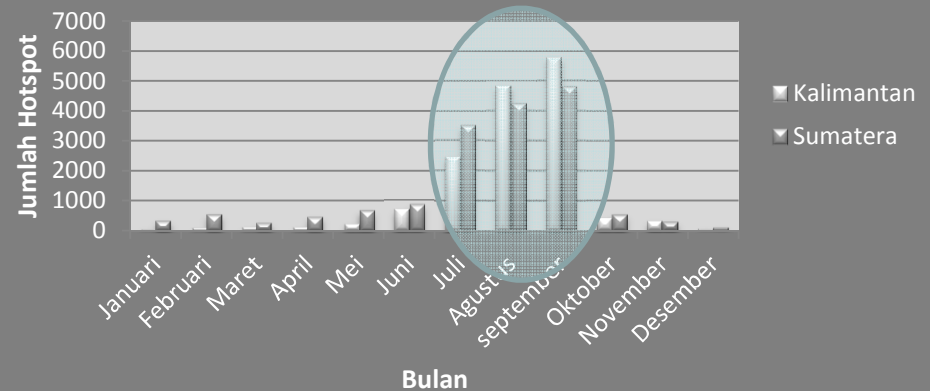
**Grafik Hotspot Kalimantan dan Sumatera Tahun 1997-2013**



**Grafik Hotspot Kalimantan dan Sumatera Tahun 2004**



**Grafik Hotspot Kalimantan dan Sumatera Tahun 2009**

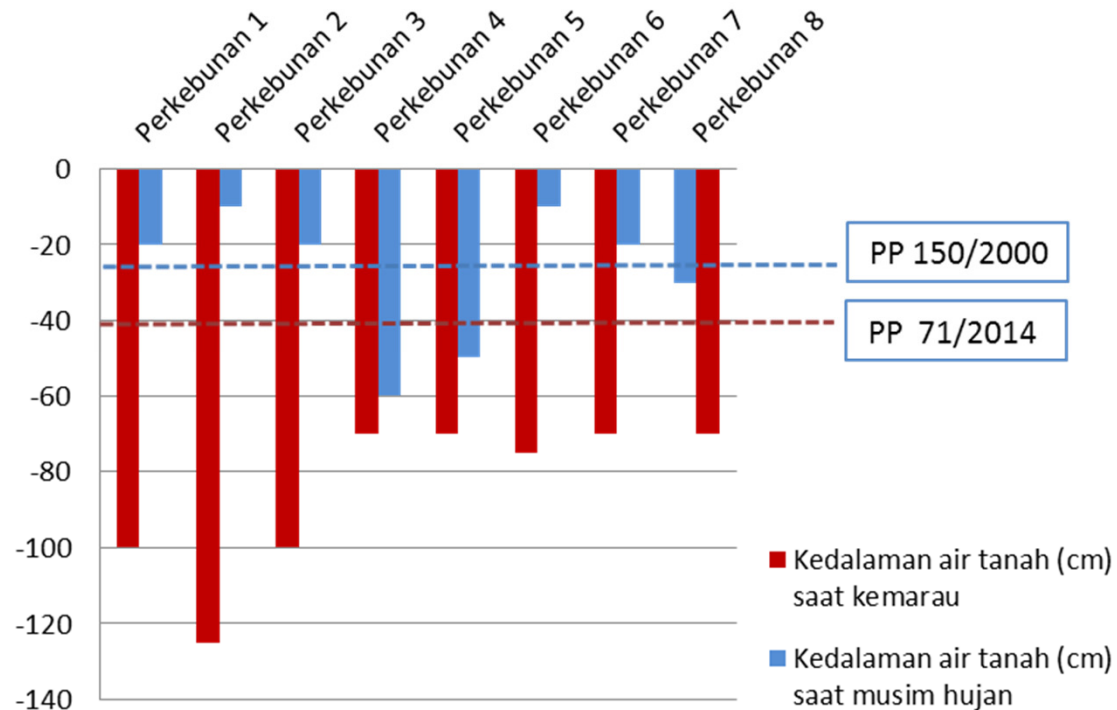


**Periode masa berlangsungnya Kebakaran telah bergeser maju**

Fire shifted from formerly Aug-Oct (2004) to July – Sept (2009) then to June – Aug (2013), even as earlier as to Feb-Mar 2014 in Riau



# Ground water table hardly can be managed



**Above Figure. Peatland's ground water table in 8 large oil palm growers in Sumatera dan Kalimantan fluctuate within dry and wet seasons. This contributes to peat dryness and make peat vulnerable to fire. Therefore our new peat regulations on ground water table must be made stringent. (data source: Wetlands International, 2014)**

**Peatland Rewetting should be the main ways to prevent peatland fires**

## Issues of peatland fires:

Too many drainage channels built by plantation sectors (oil palm and acacia), this leads to:

- Peat dryness
- Vulnerable to fires
- Emitting GHG
- Subsidence (this would lead to peatland depression that creates lake-like ecosystem/ flooded areas)



# Peatland Rewetting in Indonesia

- Already started since hundreds of years ago by the Dayak tribes (called as me'nabat')
- Recently applied in many peatland projects (by Wetlands International, WWF , APFP-MoE)
- Its proven as the most efficient and effective ways to prevent fires and reduce peat subsidence and GHG emission
- Needs to scale up and in broader areas



# CANAL BLOCKING





# PETA SEBARAN KESATUAN HIDROLOGI GAMBUT DAN KUBAH GAMBUT DI INDONESIA

## Distribution Maps of Peatland Hydrology Units in Indonesia



# Distribution of Peatland Hydrology Units

## (KESATUAN HIDROLOGIS GAMBUT/KHG)

PULAU	LUAS / Areas (Ha)		
	KAWASAN BUDIDAYA GAMBUT (Development area)	KAWASAN LINDUNG KUBAH GAMBUT (protection area)	KESATUAN HIDROLOGIS GAMBUT (KHG). Total Peatland Hydrology Units
SUMATERA	8.185.668	2.702.531	10.888.199
KALIMANTAN	7.371.307	3.013.740	10.385.047
SULAWESI	548.496	62.656	611.152
PAPUA	9.415.435	1.266.827	10.682.262
JAWA	89.446	0	89.446
<b>TOTAL</b>	<b>25.610.352</b>	<b>7.045.753</b>	<b>32.656.106</b>



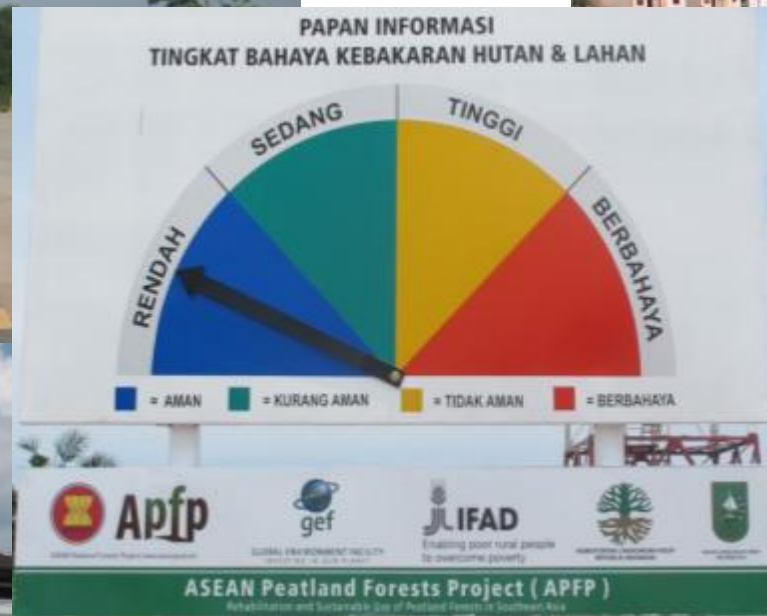
# WORKSHOP on FDRS utilization and development for forest and peatland fire protection and prevention



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# FDRS SIGN BOARD





# National Workshop on National Strategy of Sustainable Peatland Management



# TRAINING ON SUSTAINABLE PEATLAND MANAGEMENT FOR LOCAL GOVERNMENT OFFICIAL

(South Sumatera, Riau, West Kalimantan, Central Kalimantan, Bogor)



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# LEADERSHIP TRAINING AND FIRE CONTROL PRACTICE FOR COMMUNITY FIRE BRIGADES



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# Advocacy on Peatlands Issues

Seminar related to Extension of peatland moratorium (2013- 2015). Held at Hotel Grand Sahid Jaya, Jakarta, 16 Mei 2013 (jointly organized by Wetlands International Indonesia and MoE)

Bankers / Investors Meeting in order to ensure the sustainability of business investments in peatland areas. Held at JW Marriott Hotel, Jakarta, June 2014 (jointly organized by Wetlands International Indonesia and MoE)

Socializations of Draft and Final Peatland Management Regulations No 71/2014 (Next event will be 26 November 2014 in collaboration with Wetlands International Indonesia)



# TRAINING ON SUSTAINABLE PEATLAND MANAGEMENT FOR LOCAL GOVERNMENT OFFICIAL IN SIAK, BENGKALIS, Rokan Hilir, Dumai DISTRICT



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# SUPPORT PEAT AUGERS FOR LOCAL GOVERNMENT

(Aceh, South Sumatera, Jambi, Riau, West Kalimantan)



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**Apfp**

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# Alternative livelihoods in Central Kalimantan







Agroforestry system:with'surjan system:  
mixed jelutung and corn and vegetables,  
Central Kalimantan



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# Community Peer learning Programme –Central Kalimantan and South Kalimantan

- 16th – 20th June 2013
- Total 44 participants– 6 countries (Cambodia, Indonesia, Laos, Malaysia, Myanmar, Philippines,)





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# DEMONSTRATION PLOT OF AGROFORESTRY ON PEATLAND AND SHALLOW WELL





# PEER LEARNING





## SUSTAINABLE PEATLAND MANAGEMENT RELATED TO BIODIVERSITY







**TERIMA KASIH  
THANK YOU  
SALAMOT  
KHWAP KHUN  
LAC JAK  
CHEZU BA  
AR KUN  
UA TSAUG**



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