

FOREST AND LAND REHABILITATION IN INDONESIA



YUDI SUTRISNO
JIFPRO CONTACT PERSON – INDONESIA

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FOREST AND LAND REHABILITATION PROGRAM IN INDONESIA

The area of critical land in Indonesia have increased significantly from 23,242,881 Ha in 2002 to be 27,294,839 Ha in 2010 resulted from the high rate of forest degradation which reaches approximately 1.17 million Ha annually.

In an effort to accelerate the rehabilitation of degraded forest and land, since 2003 the Government of Indonesia has performed 2 National Programs, namely :

- National Movement on Forest and Land Rehabilitation Program (Better Known as “Gerhan Program”) 2003 – 2009
- National Tree Planting Program

NATIONAL MOVEMENT ON FOREST AND LAND REHABILITATION PROGRAM (BETTER KNOWN AS “GERHAN PROGRAM”)

- GERHAN Program was implemented from 2003 to 2009 with the aim to stimulate various parties to participate in combating forest and land degradation so as to grow the culture of planting trees for Indonesian people.
- The Program was implemented in 33 Provinces, spreading in 420 Districts with the total budget of Rp. 8.13 trillion.
- The target of the Program was 2,569,571 Ha and the achievement was 2,010,000 Ha.
- Activities of the Program consist of:
 - Reforestation (on state forest land)
 - Regreening (on private land)
 - Urban Forest

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REFORESTATION – GMELINA ARBOREA (JATI PUTIH)



REGREENING – *TECTONA GRANDIS* (JATI)



URBAN FOREST – *SWIETENIA MACROPHYLLA* (MAHONI)

II. NATIONAL TREE PLANTING PROGRAM

- Indonesian Simultaneous Planting Action
- Women Movement on Tree Planting and Maintenance
- Indonesia's Tree Planting Day and National Tree Planting Month
- Women Movement on Tree Planting and Maintenance for Food Security
- One Man One Tree
- One Billion Indonesian Trees



ACHIEVEMENT OF NATIONAL TREE PLANTING PROGRAM

No.	Year	Activities	Number of Planted Trees
1.	2007	Indonesia's Simultaneous Planting Action (<i>Aksi Penanaman Serentak Indonesia</i>)	86,989,425
		Women Movement on Tree Planting and Maintenance (<i>Gerakan Perempuan Tanam dan Pelihara Pohon</i>)	15,594,654
2.	2008	Indonesia's Tree Planting Day and National Tree Planting Month (<i>Hari Menanam Pohon Indonesia dan Bulan Menanam Nasional</i>)	108,947,048
		Women Movement on Tree Planting and Maintenance for Food Security (<i>Gerakan Perempuan Tanam dan Pelihara Ketahanan Pangan</i>)	5,383,121
3.	2009	One Man One Tree (<i>Satu Orang Satu Pohon</i>)	251,621,859
4.	2010	One Billion Indonesian Trees (<i>Gerakan Penanaman Satu Milyar Pohon</i>)	1,670,000,000

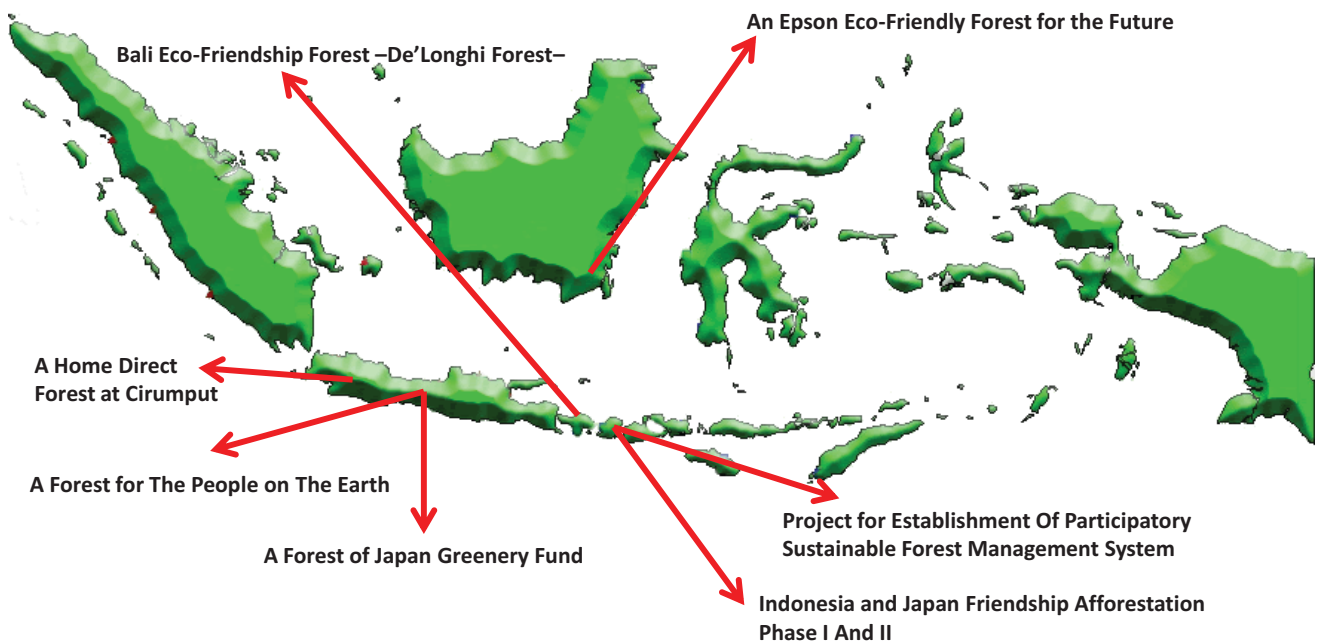


LAUNCHING OF "ONE MAN ONE TREE" PROGRAM



LAUNCHING "ONE BILLION INDONESIAN TREES" PROGRAM

JIFPRO-FUNDED PROJECTS IN INDONESIA



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I. INDONESIA AND JAPAN FRIENDSHIP AFFORESTATION PHASE I AND II

- Location : West Nusa Tenggara Province (District of East Lombok and Central Lombok)
- Main Activities: Plantation Establishment on Degraded Forest Areas (Phase I 300 Ha + Phase II 130 Ha)
- Implementation Time: Phase I → 1996 – 2001, Phase II → 2002 - 2006
- Species:
 1. Tree Species : Imba (*Azadirachta indica* Juss.), Johar (*Cassia siamea*), Sono (*Dalbergia sp*), Sengon Buto (*Enterolobium cyclocarpum* Griseb), Jati (*Tectona grandis*), Sengon Laut (*Paraserianthes falcataria* L. Nielsen.), and Jati Putih (*Gmelina Arborea*).
 2. MPTS: Jambu Mete (*Anacardium occidentale*), Asam (*Tamarindus indica*), srikaya (*Annona squamosa*) and Nangka (*Artocarpus integra* Merr.),
 3. Food Crops: Padi (*Oryza sativa*), Jagung (*Zea Mays*), and Cabe (*Capsicum frutescens*).

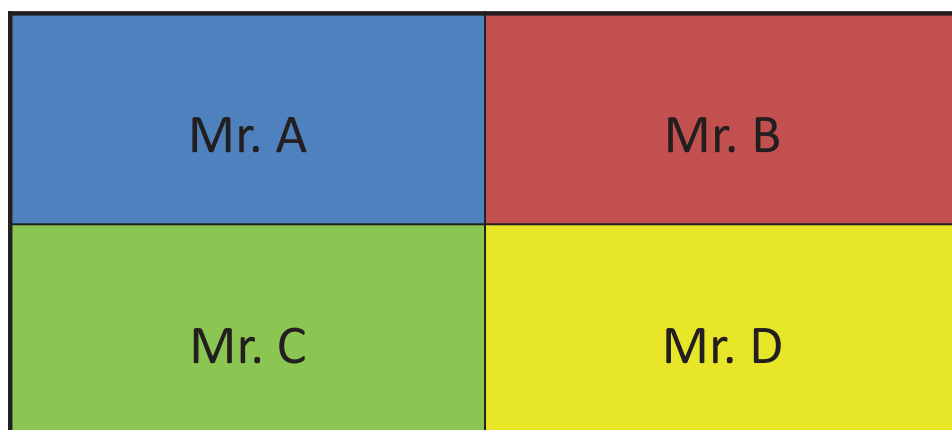
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INDONESIA AND JAPAN FRIENDSHIP.... (continue)

- Survival Rate: 90% on average
- Planting Distance: 5 x 3 m
- Funding Companies:
 - Phase I:** Aeon Group Environment Foundation, Ando Cooperation, Diichi Kosho Co. Ltd., Daiwa Securities Co. Ltd., Fuji Country Co. Ltd., Hogy Medical Co. Ltd., Nemic-Lambda K.K., Nichimen Cooperation, Nihon Keizai Shimbun Inc., and Yamazaki Baking Co. Ltd.
 - Phase II:** Wakanyaku Co. Ltd., Home Direct Co. Ltd., Aeon Group Environment Foundation, and Takeo Co. Ltd.
- Farmers got additional income from food crops, products of MPTS and wages.

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Contract System



Note:

-0,25 Ha / Farmer

-2 Years

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***ENTEROLOBIUM CYCLOCARPUM* (SENGON BUTO)**



***AZADIRACHTA INDICA* JUSS. (IMBA)**



ENTEROLOBIUM CYCLOCARPUM AND CASSIA SIAMEA (SENGON BUTO DAN JOHAR)



TAMARINDUS INDICA (ASAM)

II. A FOREST OF JAPAN GREENERY FUND

- Location: Central Java Province, District of Temanggung
- Main Activities: Plantation Establishment (156 Ha)
- Implementation Time: 1999 – 2001
- Species:
 1. Tree Species: Mahoni Afrika (*Khaya anthotheca*)
 2. MPTS: Nangka (*Artocarpus integra* Merr.), Durian (*Durio zibethinus*), Petai (*Parkia speciosa*), Rumput Gajah (*Pennisctum purpureum*),
 3. Food Crops: Jagung (*Zea mays*), Ketela pohon (*Manihot utilissima*), dan Kacang Tanah (*Arachis hypogaea* L.).
- Survival Rate: 100%

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II. A FOREST OF JAPAN... (continue)

- Planting Distance: 6 x 2 m
- Funding Company: National Land Afforestation Preservation Organization (NALAPO)
- Farmers got additional income from food crops, product of MPTS and wages.
- Based on the project evaluation conducted in April 2002, the increase of income was 22 % on average from Rp. 7.5 million / year (before the project) to be Rp. 9 million / year (after the project)

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KHAYA ANTHOTHECA (MAHONI AFRIKA)



KHAYA ANTHOTHECA (MAHONI AFRIKA)



KHAYA ANTHOTHECA (MAHONI AFRIKA) AND BANANA

III. Afforestation/reforestation CDM trial model project at Sambelia, East Lombok, NTB

“Tokyo Mokkaosho Forest”

2005 – 2010 Total planting area: 55 ha

Objectives of the Project

- To collect data and know-how to register as a A/R CDM project
 - ✓ Land eligibility
 - ✓ Additionality
 - ✓ Model Project Design Document (PDD)
 - ✓ Monitoring technique

- Jobs’ creation and livelihood improvement for local people



Gmelina arborea
and *Azadirachta indica*



Azadirachta indica etc.



(*Gmelina arborea*)

IV. Ecosystem Revitalization Project at Bromo Tengger Semeru National Park, East Java “Toyota Boshoku Group Eco-Forest” 2006 – 2011 Total planting area: 159 ha

Objectives of the Project

- Revitalization of the local ecosystem through reforestation
 - ✓ Watershed conservation
 - ✓ Prevention of soil erosion
- Jobs' creation and livelihood improvement for local people

Mount Bromo at 2,000 m above sea level



Memorial Planting Tour by Toyota Boshoku Corporation with local students



Casuarina junghuhniana



Acacia decurrens

Capacity Building Activities for Local Community at Bromo area (by local NGO; Paramitra)



Patrol against illegal logging and fire prevention by local people



Fuel wood is important for cooking and for warmth



Introducing improved stoves for fuel wood efficiency

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V. AN EPSON ECO-FRIENDLY FOREST FOR THE FUTURE

- Location: South Kalimantan Province, Tanah Laut District
- Main Activities: Plantation Establishment on degraded forest areas (300 Ha)
- Implementation Time: 2001 – 2006
- Species :
 1. Tree Species: Mahoni (*Swietenia macrophylla*), Sengon Laut (*Paraserianthes falcataria L. Nielsen*) dan Akasia (*Acacia mangium*).
 2. MPTS: Durian (*Durio zibethinus*), Petai (*Parkia speciosa*), Rambutan (*Nephelium lappaceum*), Sukun (*Artocarpus altilis*), nangka (*Artocarpus heterophyllus*), Cempedak (*Artocarpus integer*) dan Jeruk (*Citrus sp.*).
- Planting distance: 3 x 2 m (mahoni), 3 x 1 m (sukun) and 6 x 4 m (MPTS)
- This project has been used as *Education and Research Forest* by the Lambung Mangkurat University starting from February 2008.

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PROJECT BOARD



PARASERIANTHES FALCATARIA (SENGON LAUT)



***ARTOCARPUS ALTILIS* (SUKUN)**



***SWIETENIA MACROPHYL*A (MAHONI)**



***NEPHELIUM LAPPACEUM* (RAMBUTAN)**



***DURIO ZIBETHINUS* (DURIAN)**

VI. BALI ECO-FRIENDSHIP FOREST – DE'LONGHI FOREST

- Location: Bali Province, District of Karangasem
- Main Activities: Plantation Establishment on degraded forest areas (75 Ha)
- Implementation Time: 2008 – 2012
- Species: Ampupu (*Eucalyptus alba*), Puspa (*Schima wallichii*) and Rumpit Gajah (*Pennisctum purpureum*).
- Planting distance: 3 x 3 m
- Survival Rate: 90%
- Funding company: De'Longhi Japan Corporation
- This project will be extended until 2013.

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PROJECT BOARD



EUCALYPTUS ALBA (AMPUPU)



EUCALYPTUS ALBA PLANTATION (AMPUPU)

2011 01 27

VII. Model community forest project around Singkarak lake, West Sumatra

“Paninggahan/Malalo Village Friendship Forest”
2005 – 2011 Total planting area: 230 ha

Objectives of the Project

- Rehabilitation of degraded watershed area of the Singkarak Lake
- Improvement of local people’s livelihood through establishment of a model community forest by local people
- Through agroforestry



Theobroma cacao

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Donors for the Paninggahan/Malalo Village Friendship Forest

- ◆ Wakanyaku Medical Institute Ltd.
- ◆ Mutow Co., Ltd.
- ◆ UPR Corporation
- ◆ AEON Education and Environment Fund



Aleurites moluccana etc.



Syzygium aromaticum

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THANK YOU