

# STATUS OF SRI IN INDONESIA



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Chairman of Ina-SRI (Indonesian Association for SRI)

Member, Indonesian Fertilizer Board (Chairman of Research and Technology Committee)

# NATIONAL INTEREST IN RICE

- RICE IS MAIN STAPLE FOOD -- 230 MILL. INDONESIANS EAT RICE
- TOTAL RICE AREA: 7.8 MILLION HA (4.8 MILL. IRRIGATED; REST IS RAINFED, UPLAND RICE, ETC.)
- HARVESTED AREA: 11.6 MILL. HA
- RICE PRODUCTION: 58 MILL. TONS
- YIELD IS 4.8 TON/HA (LOW)



1984 SELF SUFFICIENT IN RICE !!



RICE DEFICIT: IMPORTS < 5%, FROM VIETNAM, THAILAND  
***POLITICAL INSTABILITY IN 2009 GENERAL ELECTION***

IMPORTS (MILL. TONS): 0.6 (1991); 1.0 (1994); 1.0 (1997)

MAJOR RICE IMPORTING COUNTRIES (MILL. TONS/YEAR) 2007	
PHILIPPINES	2.0
INDONESIA	0.5
BANGLADESH	1.0
NIGERIA	1.5
SAUDI ARABIA	1.0
IRAQ	0.8
IRAN	0.8

# GOVERNMENT POLICY

FOOD SECURITY PROGRAM GOAL:

5% YEARLY INCREASE RICE

2 MILL. TON/YEAR INCREASE

RICE CULTIVATION TECHNOLOGIES IMPLEMENTED:

- INTEGRATED CROP MANAGEMENT

- **S.R.I**      **8.0- 9.0 TONS/HA**      **UP TO 14.0 TONS**

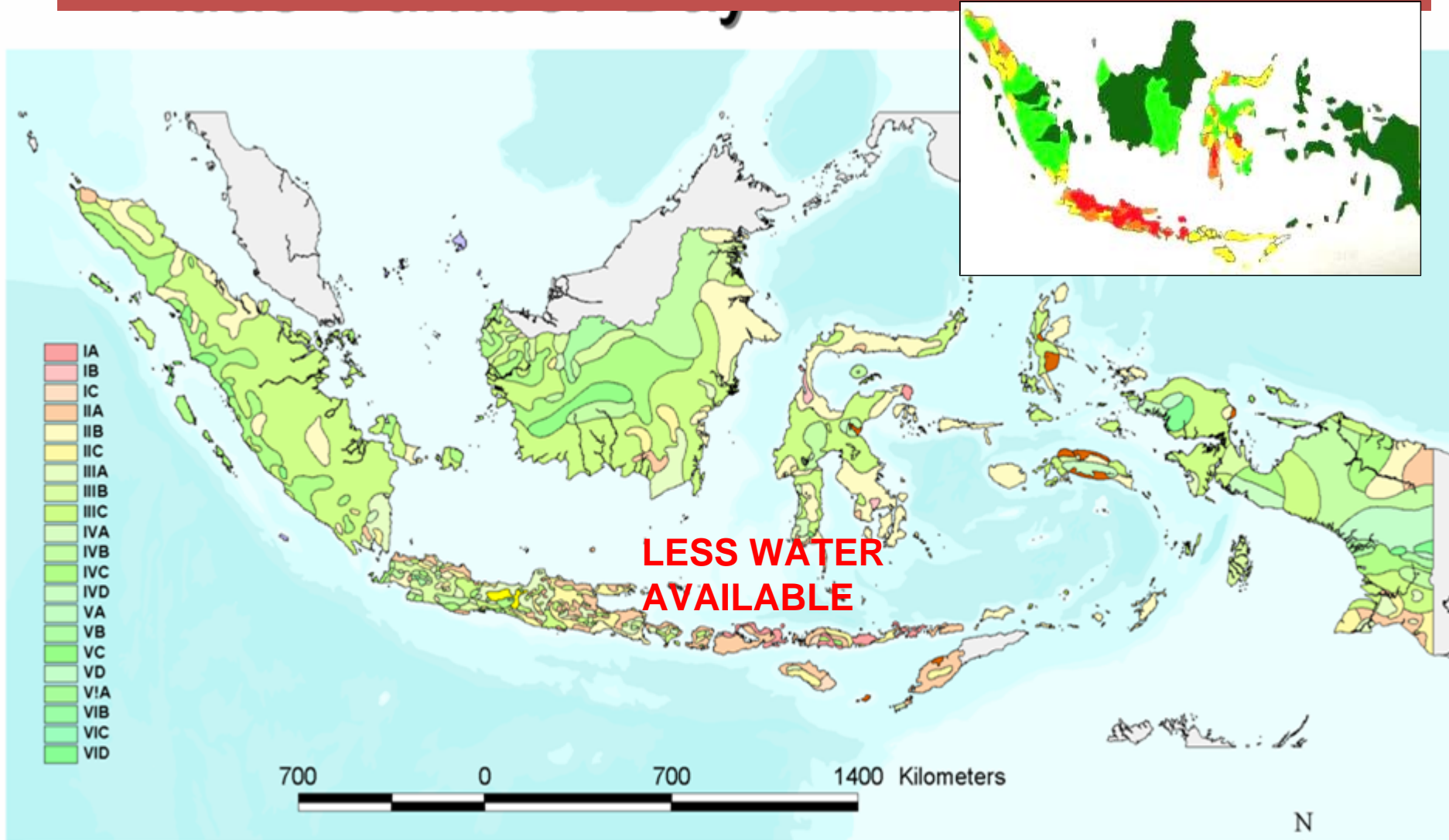
NATIONAL RICE PRODUCTION

2007 (57.16 MILL. TON)

2008 (59.89 MILL. TON)



# CLIMATOLOGICAL MAP OF INDONESIA



Balai Penelitian Agroklimat dan Hidrologi  
Badan Penelitian dan Pengembangan Pertanian  
Departemen Pertanian RI  
2004

**SRI SAVES WATER BY  
40%**



# HISTORY OF SRI ADOPTION IN INDONESIA

## 1997

- IMPORTANT ROLES IN SRI :

1. FR. HENRI de LAULANIÉ
2. PROF. NORMAN UPHOFF
3. SHUICHI SATO – NIPPON KOEI



PRESIDENT OF REPUBLIC OF INDONESIA  
MINISTER OF AGRICULTURE  
FARMERS/PRACTITIONERS



PRESIDENT  
S.B. YUDHOYONO



MINISTER  
APRIYANTO



ALIK SUTARYAT

# ELEVEN YEARS OF SRI ADOPTION IN INDONESIA (1997-2008)

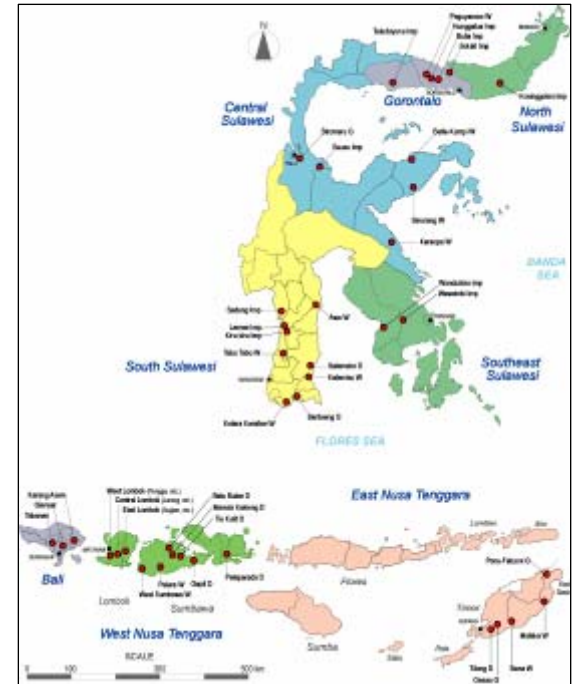
	1997-2002	2002-2006	2007-2008
PERIOD	INTRODUCTION	SLOW ADOPTION	TRANSITION
AREA	VERY LIMITED, SCATTERED	<10,000 HA 8 PROVINCES	> 20,000 HA 28 PROVINCES [OUT OF 33]
GOVERNMENT SUPPORT	LITTLE ; NATIONAL IPM PROGRAMME	MINISTRY OF PUBLIC WORKS (PU) THRU DISIMP	STRONG SUPPORT : MPW, MOA , PRESIDENT
INVOLVEMENT OF RESEARCH INSTITUTES, NGOs , CIVIL SOCIETY AND PRIVATE SECTOR	LITTLE	WORLD EDUCATION, VECO, SOME UNIVERSITIES	MANY INSTITUTIONS: UNIVERSITIES (IPB, UNAND, ET AL.) , NGOs, PRIVATE COMPANIES
RESTRICTIONS	STRONG (NO SUPPORT FROM GOVERNMENT)	REDUCING	NOW FEW

# REMARKABLE RESULTS:

- 78% INCREASE IN RICE YIELD
- 50% LESS INORGANIC FERTILIZER USED
- 40% LESS WATER CONSUMED
- 20% LESS COST REQUIRED  
(SATO AND UPHOFF, 2007)



SRI rice field, hybrid variety, Yunnan, China, 2004 – 18 t/ha





# 2008, October: SRI started in 28 out of 33 Provinces in Indonesia



# RESEARCH INSTITUTIONS/UNIVERSITIES/NGO/FARMERS

## UNIVERSITIES:

UNIVERSITY OF ANDALAS (AGRONOMY, WEST SUMATRA, 2002);  
**BOGOR AGRICULTURAL UNIVERSITY (IPB)** (WATER USE MANAGEMENT,  
SOIL BIOLOGY SOIL FERTILITY AND AGRONOMY, **GHG EMISSIONS**)  
UNIVERSITY PAJAJARAN (WEST JAVA); UNIVERSITY OF GADJAH MADA;  
BANDUNG INSTITUTE OF TECHNOLOGY; SOME LOCAL UNIVERSITIES

## RESEARCH INSTITUTE:

WATER MANAGEMENT (MINISTRY OF PUBLIC WORK)  
DIRECTORATE OF LAND MANAGEMENT (MINISTRY OF AGRICULTURE) ,  
WEST JAVA/DOA, WEST SUMATRA/DOA

## NGOs

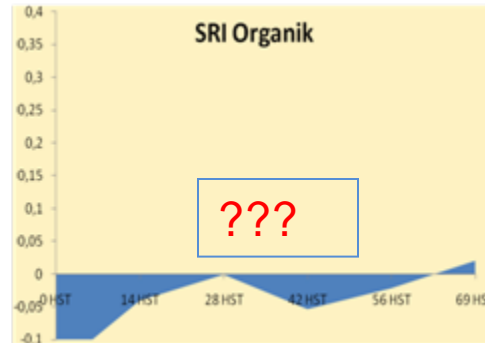
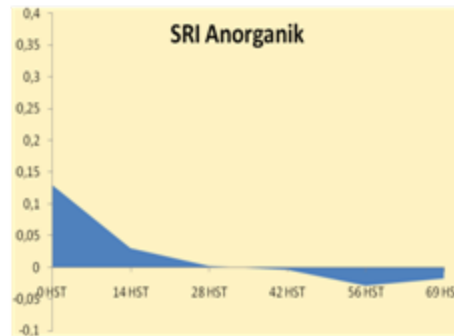
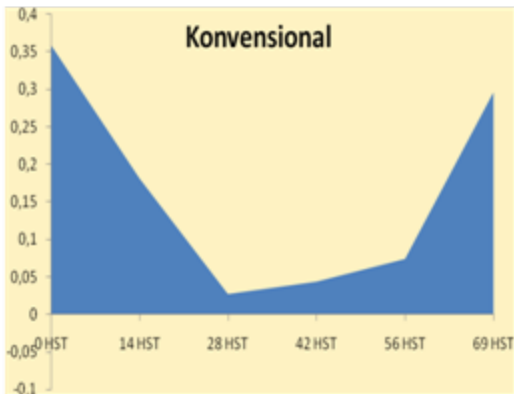
## SELF-INITIATIVE FROM FARMER GROUPS



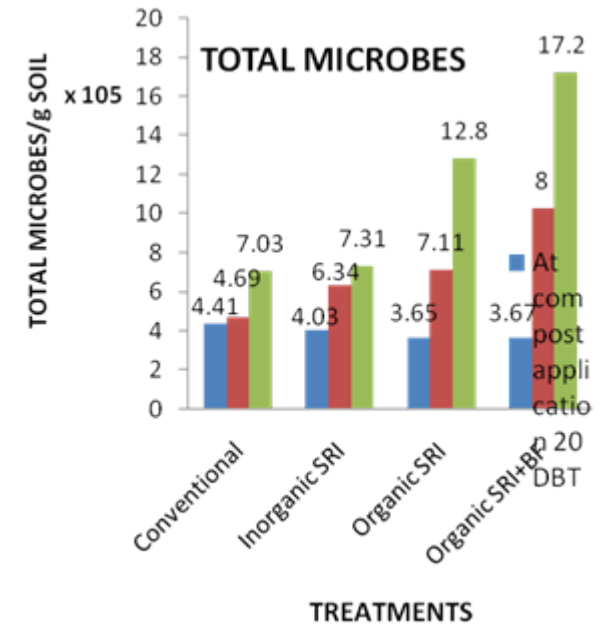
SRI rice field, hybrid variety, Yunnan, China, 2004 – 18 t/ha

# GHG EMISSIONS!!

## METHANE EMISSION



## SOIL BIODIVERSITY



## AZOTOBACTER

# SRI TRAINING CENTERS

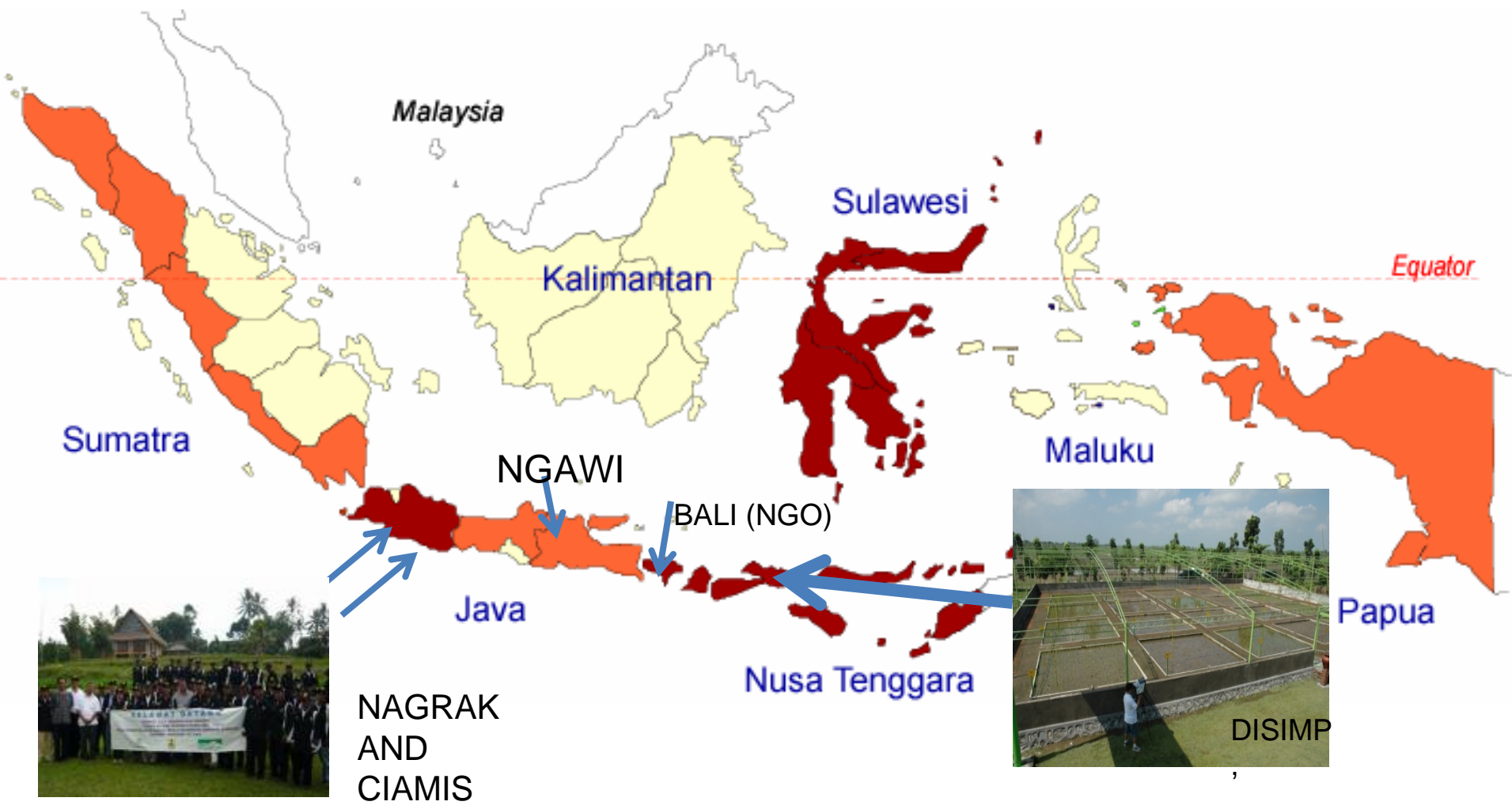
- NAGRAK ORGANIC SRI CENTER, SUKABUMI, WEST JAVA
- TRAINEES FROM MANY PROVINCES OF INDONESIA
- SATELLITE CENTER, DEPOK

## OTHER CENTERS:

- WEST JAVA (CIAMIS)
- W. NUSA TENGGARA (DISIMP, SATO)
- EAST JAVA (NGAWI)
- CENTRAL JAVA (KOPENG)



# SRI TRAINING CENTERS IN INDONESIA



# Timor Leste Staff (14) completed TOT on Organic SRI from 3-11 July 2008 in Lombok



TRAINEES FROM TIMOR LESTE

MALAYSIA ???

# CONCLUSION

SRI ADOPTION WILL BE FASTER IN INDONESIA NOW BECAUSE OF:

- (1) NATIONAL GOVERNMENT INTEREST
- (2) MANY FARMERS HAVE BEEN EXPOSED TO SRI
- (3) REAL SUPPORT FROM GOVERNMENTS
- (4) RESEARCH INSTITUTIONS, UNIVERSITIES, NGO, PRIVATE SECTORS/COMPANIES (CSR)
- (5) SRI TRAINING CENTERS ARE AVAILABLE

# VANAKKAM, NANRI & DHANYAWAD

- THANK YOU
  - NUHUN
  - SUMUHUN
  - MAULIATE
- TARIMO KASIH
- SHUKRIA (URDU)
- DHANYAWAD (INDIA)
- ARIGATO GOZAIMASU
  - TERIMA KASIH