

National Plantation Industry Conference & Exhibition 2015
The Pacific Sutera Hotel, Kota Kinabalu, Sabah
23-30 September 2015



CENTRALLY MANAGED FARMING SYSTEM (CMFS)

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and

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Pusat Penyelidikan Agrobiodiversiti dan
Persekitaran (BE), Mardi



AGRICULTURAL CHEMICALS (M) SDN. BHD.

CENTRALLY MANAGED FARMING SYSTEM (CMFS)



AGENDA

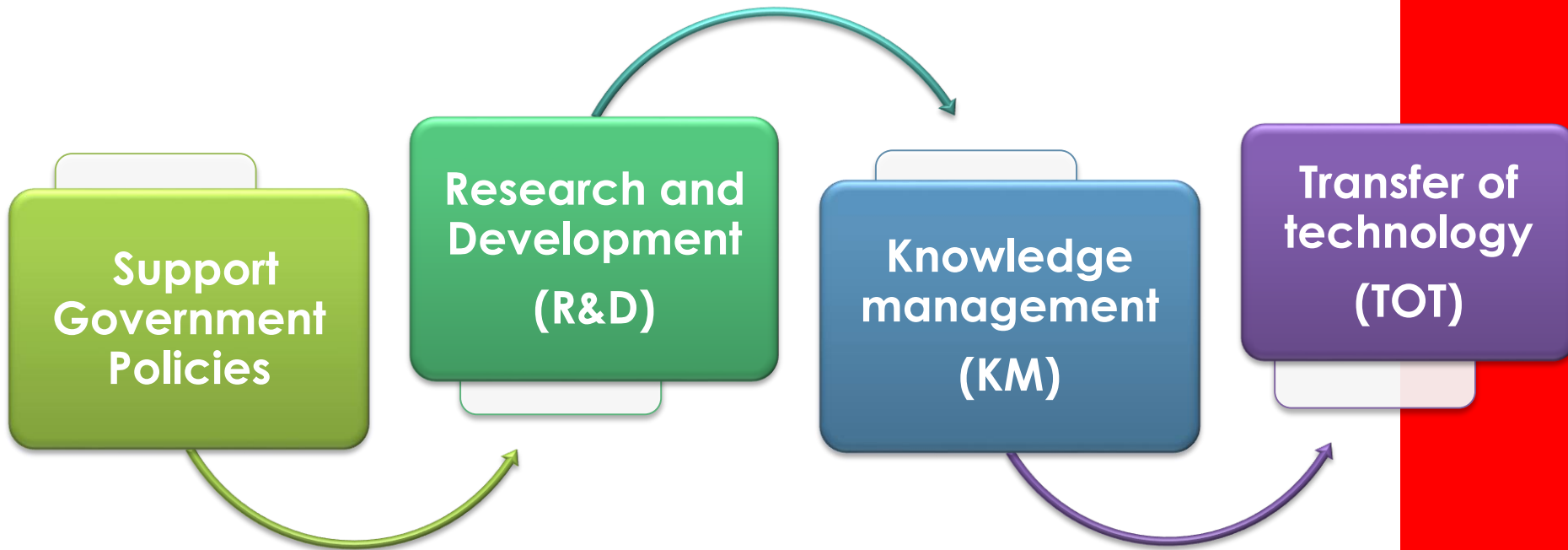
- 1.0. Introduction
- 2.0. ACM and Role of Private Sector
- 3.0. Centrally Managed Farming System
- 4.0. Conclusion

1.0 Introduction

- Agriculture – still principle economic activity in Asean region
- Most are small scale
- Active private sector participation – enhance productivity
- Smart partnership

2.0 ACM and Role of Private sector

- Private sector – work closely with government sector as smart partnership



2.0 ACM and Role of Private sector

Emphasis by Government

Self-sufficiency level (SSL)

Ensure target SSL is achieved annually

Improve income of rice-grower

Improve yield performance

Eradicate poverty

2.0 ACM and Role of Private sector



Today
2015

46 years
old

- ISO certified company

- Formulator and distributor



Certified to ISO 9001 : 2008
Cert. No. : AR2021

Certified to ISO 14001 : 2004
Cert. No. : ER0869

Certified to OHSAS 18001 : 2007
Cert. No. : SR0747

- Research Station



2.0 ACM and Role of Private sector



NAFAS

PERTUBUHAN PELADANG KEBANGSAAN
(National Farmers Organization)

Aiming to upgrade socio-economic status and welfare of farmers in Malaysia

47%

24%



Nihon Nohyaku

Providing technical support and knowhow

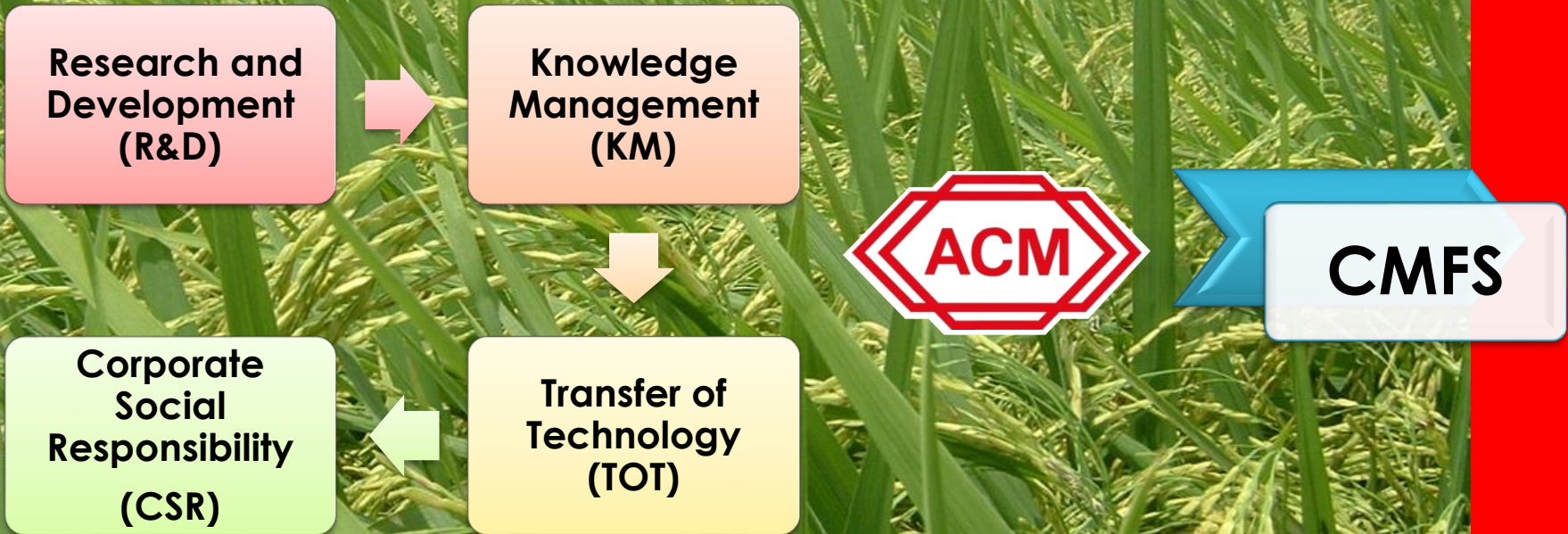
Shareholder

Marubeni
CORPORATION

Introducing suppliers from around the world

29%

3.0 Centrally Managed Farming System (CMFS)



3.0 Centrally Managed Farming System (CMFS)



CMFS is a paddy management system adopting

PRECISION FARMING TECHNIQUE

emphersizing on

AGRONOMIC MANAGEMENT OF PADDY

With optimum

USAGE OF REGISTERED INPUTS AND FARM MACHINERIES

- This program has been implemented and suggest to expand

3.0 Centrally Managed Farming System (CMFS)

HISTORY

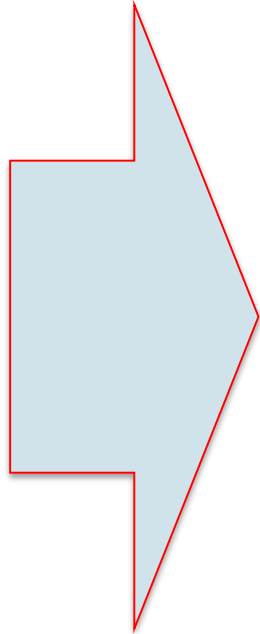


On 12 th. April 2010
MARDI & ACM
Signed MOA
..... To develope

Government Research Body - develope
'Pakej ' Trans-Pack' & 'Crest-Pack'



Leader in Agricultural chemicals and farm machineries - develope
'ACM AGRONOMIC PACKAGE'



CENTRALLY MANAGED FARM SYSTEM (CMFS)

RICE INPUT COMBINATION APPLICATION TECH. (RICATECH)

"SEEDBOX " TECHNOLOGY

Proposal Paper

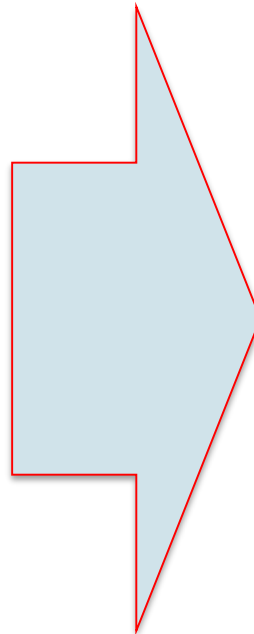
3.0 Centrally Managed Farming System (CMFS)



Government Research Body - develope Pakej 'Trans-Pack' & 'Crest-Pack'



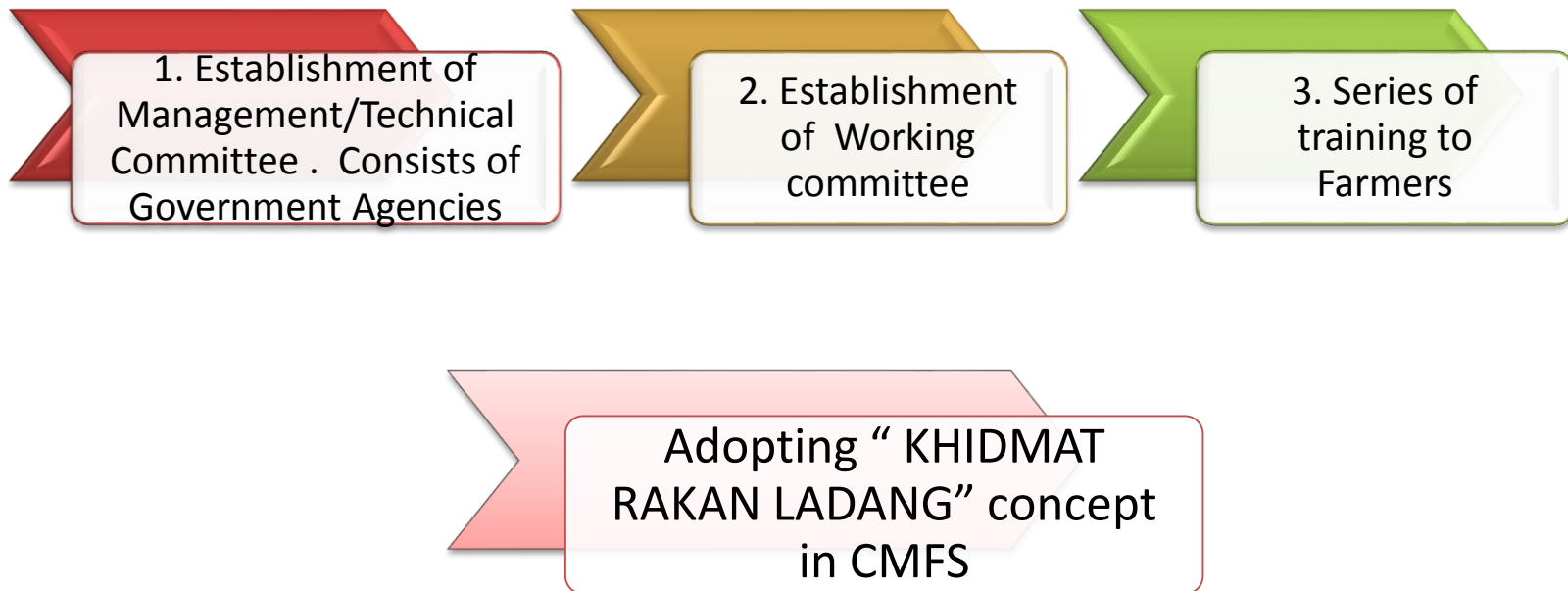
Leader in Agricultural chemicals and farm machineries - develope 'ACM AGRONOMIC PACKAGE'



3.0 Centrally Managed Farming System (CMFS)



CMFS IMPLEMENTATION WORKFLOW

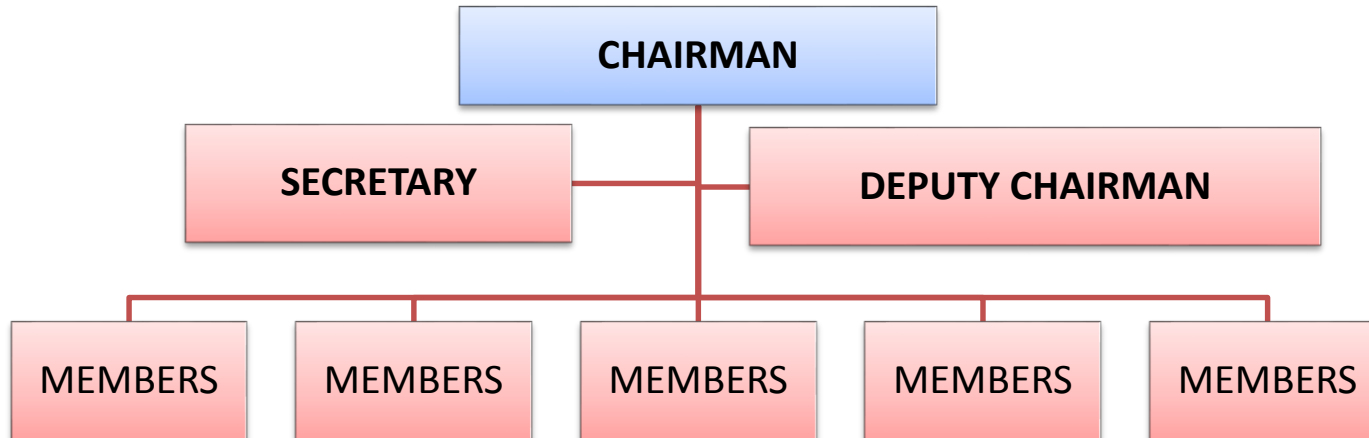


3.0 Centrally Managed Farming System (CMFS)



CMFS IMPLEMENTATION WORKFLOW

1. Establishment of Management/Technical Committee . Consists of Government Agencies



FUNCTION ;

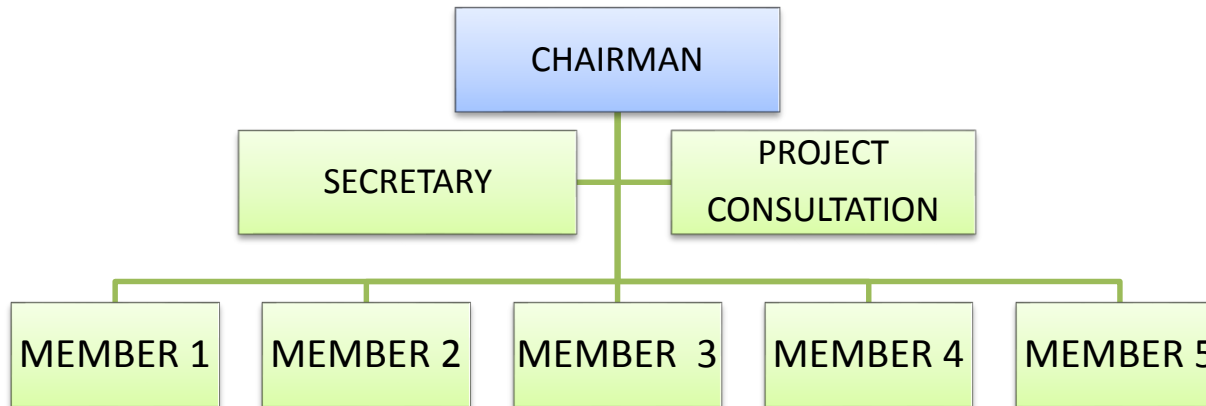
1. Arrange project briefing to respective PPK
2. Collect, compile and update location data of PPK and farmers participate in project
3. Carry out crop monitoring activities collectively
4. Project progress meeting to solve problem arises.
5. Prepare project report

3.0 Centrally Managed Farming System (CMFS)



CMFS IMPLEMENTATION METHOD

2. Establishment of Working committee (at PPK level)



FUNCTION :

1. Identify area and obtain agreement from farmers
2. Collect, compile and update location data of PPK and farmers participate in project
3. Prepare planting schedule
4. Project implementation
5. Crop monitoring and collect data ('crop check')
6. Project Progress meeting and prepare report to Management/Technical committee

3.0 Centrally Managed Farming System (CMFS)



CMFS IMPLEMENTATION WORKFLOW

3. Series of training to Farmers/brigade

ACM

1. Agronomy of paddy
2. Good land preparation
3. Management of rat and snail
4. Seed treatment and preparation
5. Weeds management system
6. Pests, diseases and Nutrient management
7. Pesticide Application technology and mechanization

MARDI

1. Trans-Pack and Crest-Pack package
2. Crop monitoring system (crop check) and data collection

CMFS IMPLEMENTATION WORKFLOW



3. Series of training to Farmers/ brigade

Classroom and infield hands on training



CMFS IMPLEMENTATION WORKFLOW



Sprayer calibration and mechanization training



3.0 Centrally Managed Farming System (CMFS)



Adopting “ KHIDMAT RAKAN LADANG” concept in CMFS

Catalyst to CMFS



**‘KHIDMAT RAKAN LADANG’
ACM INVOLVEMENT IN PROJECT MANAGEMENT**

3.0 Centrally Managed Farming System (CMFS)



Role of “Khidmat Rakan Ladang”



Discussion with Project leader



Hands-On training



Pests & Diseases Surveillance

3.0 Centrally Managed Farming System (CMFS)



Field Monitoring



Trained Field Promoter



- **Ensure Optimum use of inputs**
- **SDA concept**
 - *Supply – Deliver – Apply*
- **“ Target for the inputs is the crop not the farmer”**

3.0 Centrally Managed Farming System (CMFS)



Role of “ Khidmat Rakan Ladang”

Field Monitoring



Water management



Paddy stage(days)	Water level (cm)
15	2-5
16-30	7-8
31-heading	10-12

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Field Monitoring

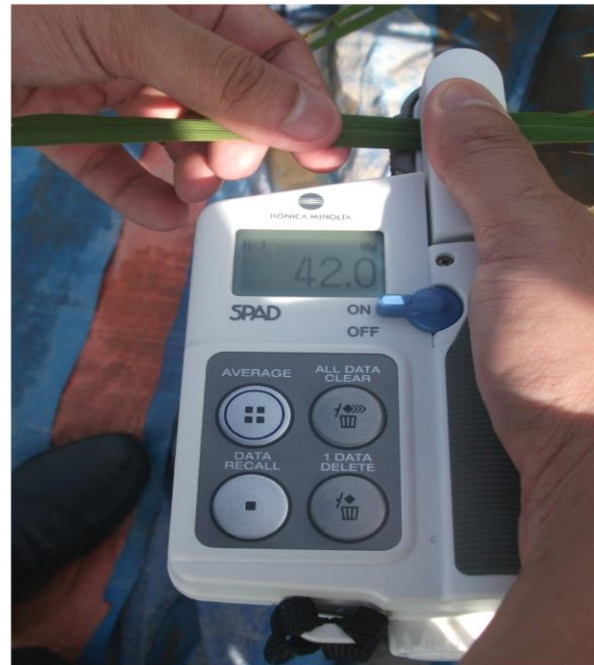


Fertilizer management

- SPAD Meter (indicator for Nitrogen fertilizer)



Too Low



Too high



Good reading

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Field Monitoring



Crop growth/yield

Width of flag leaf



In the range of 1.6-1.8 cm



Panicle should be longer than flag leaf

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Field Monitoring



Crop Growth/yield

Tiller count



Panicle length



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Organize **FIELD DAY**.....



Program Hari Ladang
PERINGKAT PKP JAJAHAN BACHOK
PADA : 13 JANUARI 2010 (RABU) MASA : 9:00 PAGI
TEMPAT : PROJEK PENINGKATAN HASIL MEP KUBANG TELAGA, BACHOK.

Dirasmikan Oleh : **YBhg. DATO' DR. ILLIAS B. HJ. HUSAIN**
AHLI LEMBAGA PENGARAH KADA

Logos: Malaysia, KADA, MARDI, ACM, and a portrait of YBhg. Dato' Dr. Illias B. HJ. Husain.

3.0 Centrally Managed Farming System (CMFS)



Organise SEMINAR



Proposal Paper

3.0 Centrally Managed Farming System (CMFS)



Field visit to CMFS project



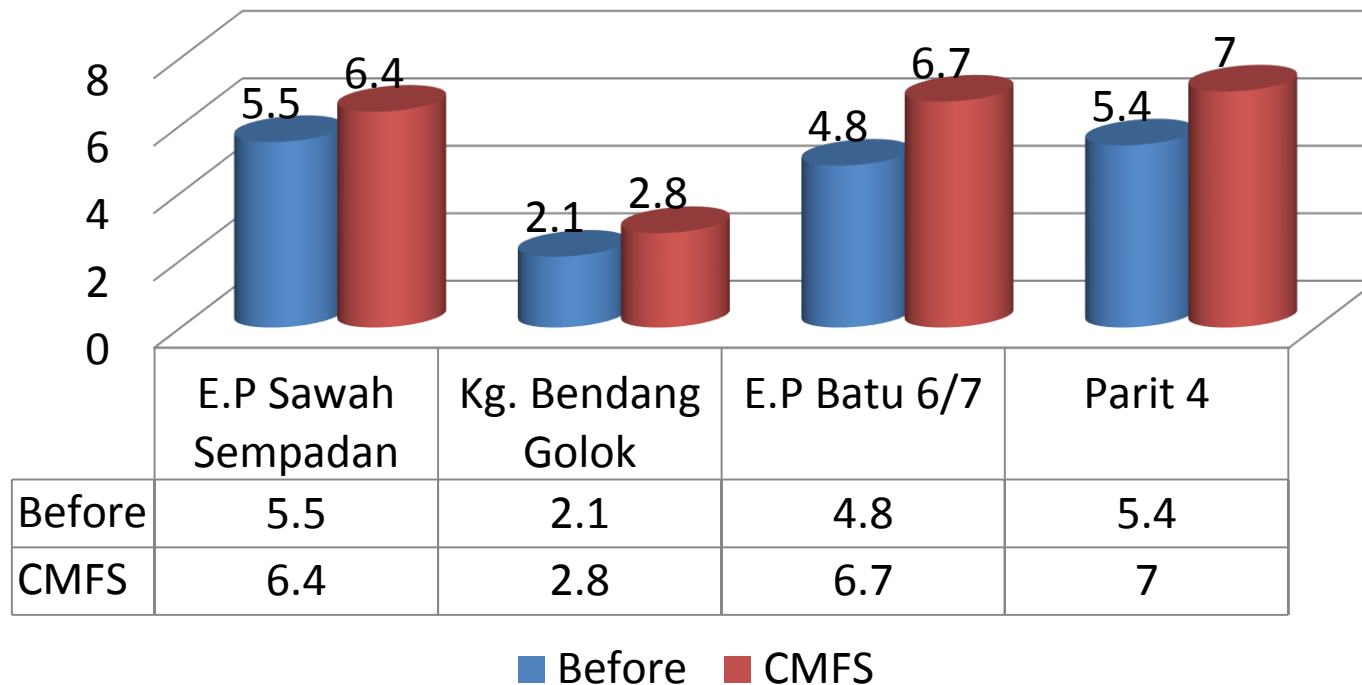
AgriChem Malaysia

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Achievement

Average Yield (ton/ha)



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Blok UX Sawah Sempadan



Bendang Golok , PPK Semarak



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Achievement

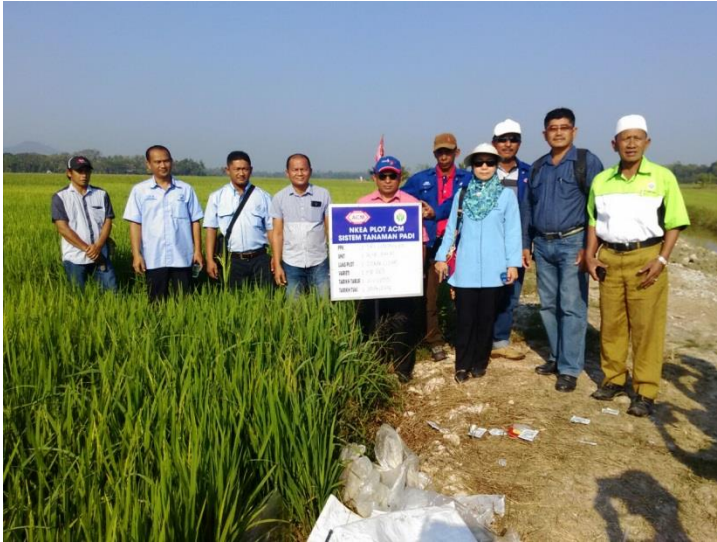
NKEA PROJECT Kota Belud , Sabah

Highest Yield for Season 2/2013	7.28 MT/HA
Lowest Yield for Season 2/2013	3.32 MT/HA
Average Yield	5.42 MT/HA

3.0 Centrally Managed Farming System (CMFS)



NKEA PROJECT Kota Belud , Sabah



3.0 Centrally Managed Farming System (CMFS)



Achievement

Collaboration Project between MADA/PPK
K.BATAS/MARDI/ACM at Kg. Selarong Padang, Alor
Setar, Kedah

Achievement for Season 1/2013	Var: CL 2	9.10MT/Ha
Achievement for Season 1/2014	Var : CL 2	10.75 MT/Ha
Yield Increament		1.690MT/Ha @ 18.13%

3.0 Centrally Managed Farming System (CMFS)



Collaboration Project between MADA/PPK
K.BATAS/MARDI/ACM at Kg. Selarong Padang, Alor
Setar, Kedah



4.0 Conclusion



Private sector

TOWARDS 100 %
SSL

Research
and
Development
(R&D)

Knowledge
Management
(KM)

Corporate
Social
Responsibility
(CSR)

Transfer of
Technology
(TOT)

MARDI

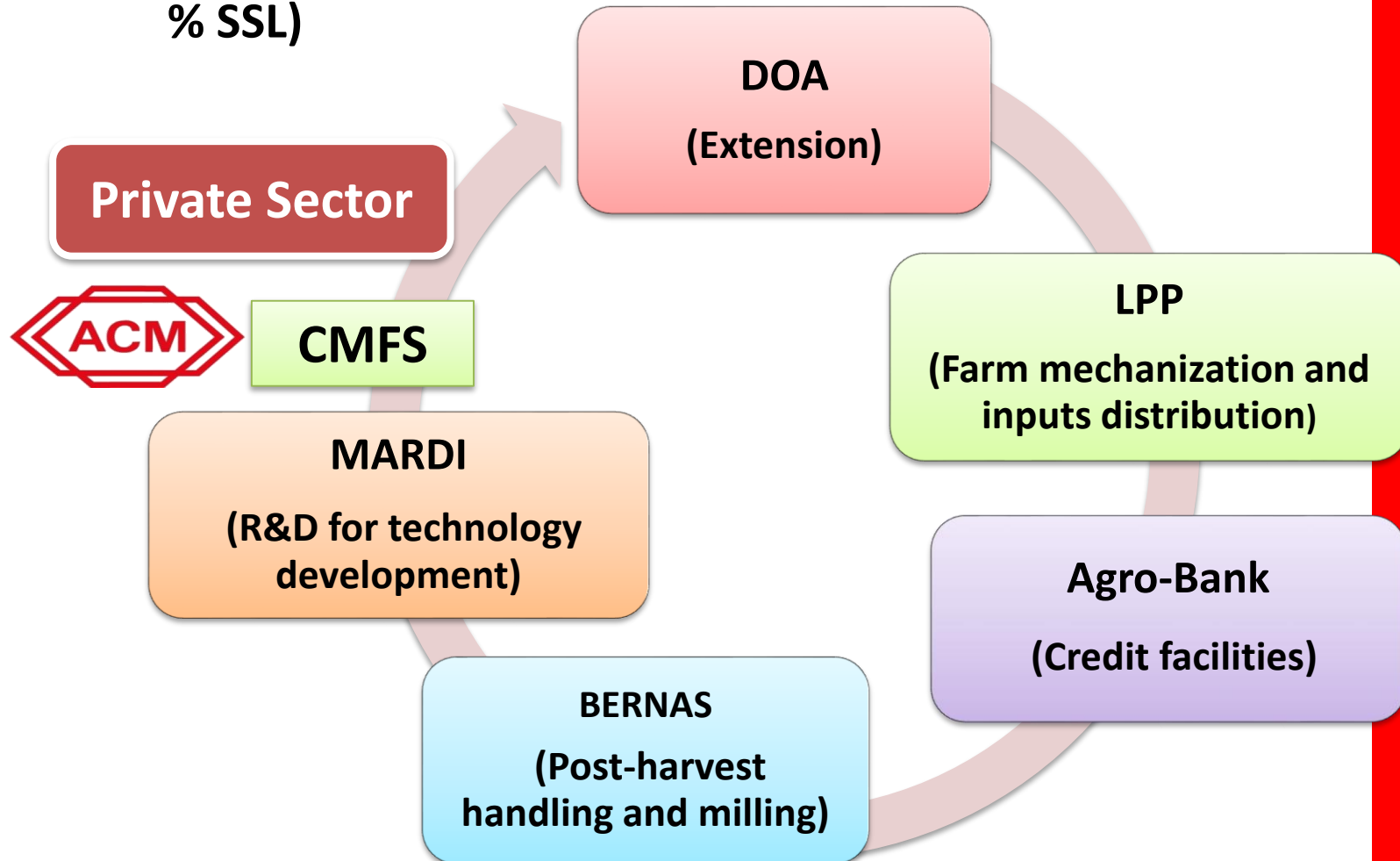
ACM

CMFS

4.0 Conclusion



**Symbiotic System : Improve
Rice productivity (towards 100
% SSL)**



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A wide-angle photograph of a lush green rice paddy field. The rice plants are in the early stages of growth, appearing as a dense carpet of bright green. In the background, a line of palm trees and other tropical vegetation is visible under a clear sky. A small building with a red roof is partially visible on the far left. The text 'CENTRALLY MANAGED FARMING SYSTEM (CMFS)' is overlaid in the center of the image in a large, red, 3D-style font with a white outline.

**CENTRALLY MANAGED FARMING SYSTEM
(CMFS)**

THANK YOU