International Networking

MARDI

Oleh Pn. Aniadila binti Kamaruddin
Deputy Director
International Networking Program
MARDI
Organisational Structure
MARDI 2022

MARDI States Director

SANIAH BINTI KORMIN
DIRECTOR
MARDI NEGERI JOHOR

SUWARDI AFANDI BIN AHMAD
DIRECTOR
MARDI NEGERI SEMBILAN

AMIRRUDIN BIN MOKHTAR
DIRECTOR
MARDI NEGERI PULAU PINANG

WAN ZAIRI BIN WAN ABDUL
MANAFF
DIRECTOR
MARDI NEGERI KEDAH

BAHARI B. MOHD. MASARUDDIN
DIRECTOR
MARDI NEGERI PAHANG

FADZLIRAHIMI BIN ISMAIL
DIRECTOR
MARDI NEGERI SELANGOR

IR. ZAINUDDIN BIN ZAKARIA @
ZAHARI
DIRECTOR
MARDI NEGERI KELANTAN

ZAIHA ZEETI BINTI MOHAMAD
YUSOB
DIRECTOR
MARDI NEGERI PERAK

AMIRAN BIN NGAH
DIRECTOR
MARDI NEGERI TERENGGANU

NIK ADLI BIN NIK MUHAMMAD
DIRECTOR
MARDI NEGERI MELAKA

DR MOHAMMAD ZAMHARIR BIN
AHMAD
DIRECTOR
MARDI NEGERI PERLIS

HELDA BINTI SOUKI
DIRECTOR
MARDI NEGERI SABAH

MOHAMMAD NOOR ADROS YAHYA
DIRECTOR
NEGERI SARAWAK
MARDI's Stations All Over the Country

Land Area: 6975.1 ha, 32 Main and Support Stations
Facilities and Infrastructure

- MARDI Headquarter
- MARDI Seberang Perai
- Germlasm collection in 7 stations located in: MARDI Serdang, MARDI Seberang Perai, MARDI Jelebu, MARDI Jerangau, MARDI Sintok, MARDI Bintulu, MARDI Kemaman

- 7 COEs
- 25 Outreach Stations
- 70 Laboratories

Technology Transfer Facilities

- BBShoppe Bookstore
- MARDI Mart
- Testbed, Model Farms, Training Centre, Incubator
- MARDI Agrotechnology Park
- Accredited & Certified Service Labs
- 5 Agro Technology Park

R&D Facilities

- Gene Bank & Gerplasm
- Centre of Excellence / COE
# INTERNATIONAL ENGAGEMENT

## AGENSI BILATERAL (29)

### CHINA
- Hebei Academy of Agriculture and Forestry Sciences (HAAFS)
- Chinese Academy of Agricultural Sciences (CAAS)
- China National Rice Research Institute (CNRRI)
- Yunnan Academy of Agricultural Science (YAAS)
- Guangdong Academy of Science (GDAS)
- Chinese Academy of Tropical Agriculture Sciences (CATAS)

### KOREA SELATAN
- Rural Development Administration (RDA)

### SRI LANKA
- Sri Lanka Council for Agricultural Research Policy (SLCARP)

### TAIWAN
- Taiwan Agricultural Research Institute (TARI)

### FILIPINA
- Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD)

### AZERBAIJAN
- Azerbaijan Research Institute of Crop Husbandry
- Azerbaijan State Agricultural University (ADAU)

### UZBEKISTAN
- Uzbekistan Center of Knowledge and Innovation in Agriculture

### DUBAI
- International Center for Biosaline Agriculture (ICBA)
- Abu Dhabi Agriculture and Food Safety Authority (ADAFSA)

### UNITED KINGDOM
- Rothamsted Research
- British High Commissions

### ARGENTINA
- National Agricultural Technology Institute (INTA)

### USA
- United States Department of Agriculture (USDA)

### BRUNEI
- Department of Agriculture and Agri-Food

### IRAN
- Agricultural Research Education & Extension Organization (AREEO)

**JUMLAH : 29**
COLLABORATION WITH EMBASSY

KEDUTAAN (9)

CHINA
- Embassy of the People’s Republic of China in Malaysia

KOREA
- Embassy of the Republic of Korea in Malaysia

HUNGARY
- Embassy of Hungary

UNITED KINGDOM
- British High Commission Kuala Lumpur

UNITED STATES
- United State Department of Agriculture (USDA), U.S. Embassy Kuala Lumpur

PAKISTAN
- Embassy of Pakistan in Kuala Lumpur

IRAN
- Embassy of the Islamic Republic of Iran

RUSIA
- Embassy of the Russian Federation in Malaysia

AZERBAIJAN
- Embassy of the Republic of Azerbaijan to Malaysia, Kuala Lumpur
PROGRAM/ACTIVITIES
Malaysia secures over USD47 Million worth of trade and investment from MoUs signed with companies across the Middle East at Expo2020
INTERNATIONAL FUND

THE IMPACTS OF MYGAP CERTIFICATION AMONG FARMERS IN CAMERON HIGHLANDS

Pusat: ES
Dana: UNEP (USD 200k)

AGRICULTURE SECTOR READINESS FOR ENHANCED CLIMATE FINANCE AND IMPLEMENTATION OF KORONOVIA JOINT WORK ON AGRICULTURE (KJWA) PRIORITIES IN SOUTHEAST ASIA: GREEN CLIMATE FUND

Pusat: BE & ES
Dana: Green Climate Fund (USD 450K)

PUBLIC & PRIVATE WORKSHOP ON ENABLING INVESTMENT FOR MODERN AND SUSTAINABLE MECHANIZATION TECHNOLOGIES AND PRACTICES FOR SMALLHOLDER FARMING IN ASEAN COUNTRIES

Pusat: ES
Dana: CSAM (USD 8,500)

ROLE OF HEALTHY SOIL-PLANT INTERACTIONS TOWARDS ACHIEVING RESILIENT AGRICULTURE IN ASIA

AARDO-MARDI JOINT ONLINE TRAINING ON ADVANCEMENTS IN LIVESTOCK REPRODUCTION TECHNOLOGIES

Pusat: SF & LS
Dana: AARDO (USD 4,200)
<table>
<thead>
<tr>
<th>Project Description</th>
<th>Location</th>
<th>Funders</th>
</tr>
</thead>
<tbody>
<tr>
<td>REGENERATION OF CROP DIVERSITY AND SAFETY DUPLICATION AT THE SVALBARD GLOBAL SEED VAULT</td>
<td>BE</td>
<td>Norad &amp; Crop Trust (USD 59,437.75)</td>
</tr>
<tr>
<td>PILOT DATA COLLECTION AND MEASURE FRUIT AND VEGETABLES LOSSES UNDER SDG 12.3.1.A IN SELECT REGIONS OF MALAYSIA</td>
<td>HR</td>
<td>FAO (USD 45K)</td>
</tr>
<tr>
<td>AGRICULTURAL WASTE MANAGEMENT FOR SUSTAINABLE FOOD PRODUCTION</td>
<td>SF</td>
<td>FFTC + MARDI + PCAARRD</td>
</tr>
<tr>
<td>ENHANCING FOOD SECURITY THROUGH EFFICIENT IRRIGATION SYSTEMS</td>
<td>CC &amp; ER</td>
<td>SESRIC</td>
</tr>
</tbody>
</table>
INTERNATIONAL FUNDING

PILOTING ONE HEALTH IN ASIA TO MANAGE AFLATOXIN

Pusat: BN, IC, HR
Dana: APAARI

i. IMPROVING NUTRIENT USE EFFICIENCY FOR SUSTAINABLE RICE PRODUCTION

ii. IMPROVING GRAIN CORN NUTRIENT USE EFFICIENCY FOR SUSTAINABLE ANIMAL FEED PRODUCTION

iii. SUSTAINABLE PAPAYA PRODUCTION USING INDUCED SYSTEMIC RESISTANCE (ISR) TECHNOLOGY FOR IMPROVED YIELD, QUALITY AND RESISTANCE AGAINST PAPAYA CROWN ROT DISEASE

i. STRENGTHENING NATIONAL FOOD SECURITY THROUGH CLIMATE SMART AGRICULTURE APPROACHES (NEED ANALYSIS)

ii. STRENGTHENING NATIONAL FOOD SECURITY THROUGH ADAPTATION STRATEGIES TO CLIMATE CHANGE USING SUSTAINABLE APPROACHES (CAPACITY BUILDING)

Pusat: BE

III. PREVENTION OF FOOD LOSS AND WASTE IN THE OIC MEMBER COUNTRIES

Pusat: HR
HIGH LEVEL MEETINGS AND VISITS

MARDI KE EXPO DUBAI
2020
19-25 FEB 2022

MARDI KE AZERBAIJAN
26 FEB – 1 MAC 2022

MARDI KE SAUDI ARABIA
23-30 AUG 2022

MARDI KE IAARD, INDONESIA
19 SEP 2022

KSU DAN MARDI KE CABI, UK
27-28 SEP 2022

JUMLAH : 8
THE 7TH ASIAN PGPR INTERNATIONAL CONFERENCE
26 AUGUST 2022

PROJEK BAWANG DAN SOYA, INDONESIA
18 SEPTEMBER 2022

TOTTORI UNIVERSITY, JEPUN
20 SEPTEMBER 2022

LUND UNIVERSITY, SWEDEN
11 OCTOBER 2022

VILLA INTERNATIONAL SCHOOL,
MALDIVES
02 NOVEMBER 2022

DEAKIN UNIVERSITY, AUSTRALIA
16 DECEMBER 2022
WEBINAR ANTARABANGSA

MARDI-AARDO ONLINE TRAINING
21 FEB – 03 MAR 2022

MARDI-AARDO ONLINE TRAINING
21 MAR – 31 MAR 2022

MARDI-IAARD WEBINAR
12 APR - 14 APR 2022

PENYEDIAAN NOTA KONSEP APEC
23 MEI 2022

MARDI-SESRIC WEBINAR
23 AUG – 25 AUG 2022

MARDI-UMSU WEBINAR
20 SEP – 21 SEP 2022

MARDI – CSAM WORKSHOP
15 NOV – 16 NOV 2022

MARDI-FFTTC SYMPOSIUM 22 AUG 2022

MARDI-TFNET WORKSHOP
29 NOV 2022

JUMLAH : 9
FFTC-MARDI WORKSHOP “ROLE OF HEALTHY SOIL-PLANT INTERACTION TOWARDS ACHIEVING RESILIENT AGRICULTURE IN THE ASIAN AND PACIFIC REGION”, 22 OGOS 2022
WEBINAR MARDI-SESRIC “ENHANCING FOOD SECURITY THROUGH EFFICIENT IRRIGATION SYSTEM”, 23 – 25 AUGUST 2022
WEBINAR MARDI-UMSU "MENANGANI ISU SEMASA PADI UNTUK SEKURITI MAKANAN"
20-21 SEPTEMBER 2022
PUBLIC & PRIVATE WORKSHOP ON ENABLING INVESTMENT FOR MODERN AND SUSTAINABLE MECHANIZATION TECHNOLOGIES AND PRACTICES FOR SMALLHOLDER FARMING IN ASEAN COUNTRIES, 15-16 NOVEMBER 2022
WORKSHOP ON MANAGEMENT OF BACTERIAL DISEASES OF BANANAS
29 NOVEMBER 2022

Banana Bacterial Diseases

1. ERDVER disease
   - Affects all types of bananas
   - Spreads very quickly
   - Prevents the growth and development of the plant

   1. Plant growth
      - Development
      - Disease control
      - Vegetative growth

   2. Reference release (90-120 days)

2. Minor disease
   - Found occasionally on 1-2 fingers on the hand

   1. Corm rot/Rhizome rot
   - Occurs in January to May

2. Mokillo/Finger tip rot
WHAT WE CAN DO TOGETHER

01 Exchange of researchers and technical staff

02 Joint R&D projects and activities

03 Joint organization of activities (meeting, workshop, conference etc)

04 Joint publication, sharing information and consultations
THANK YOU
TERIMA KASIH