



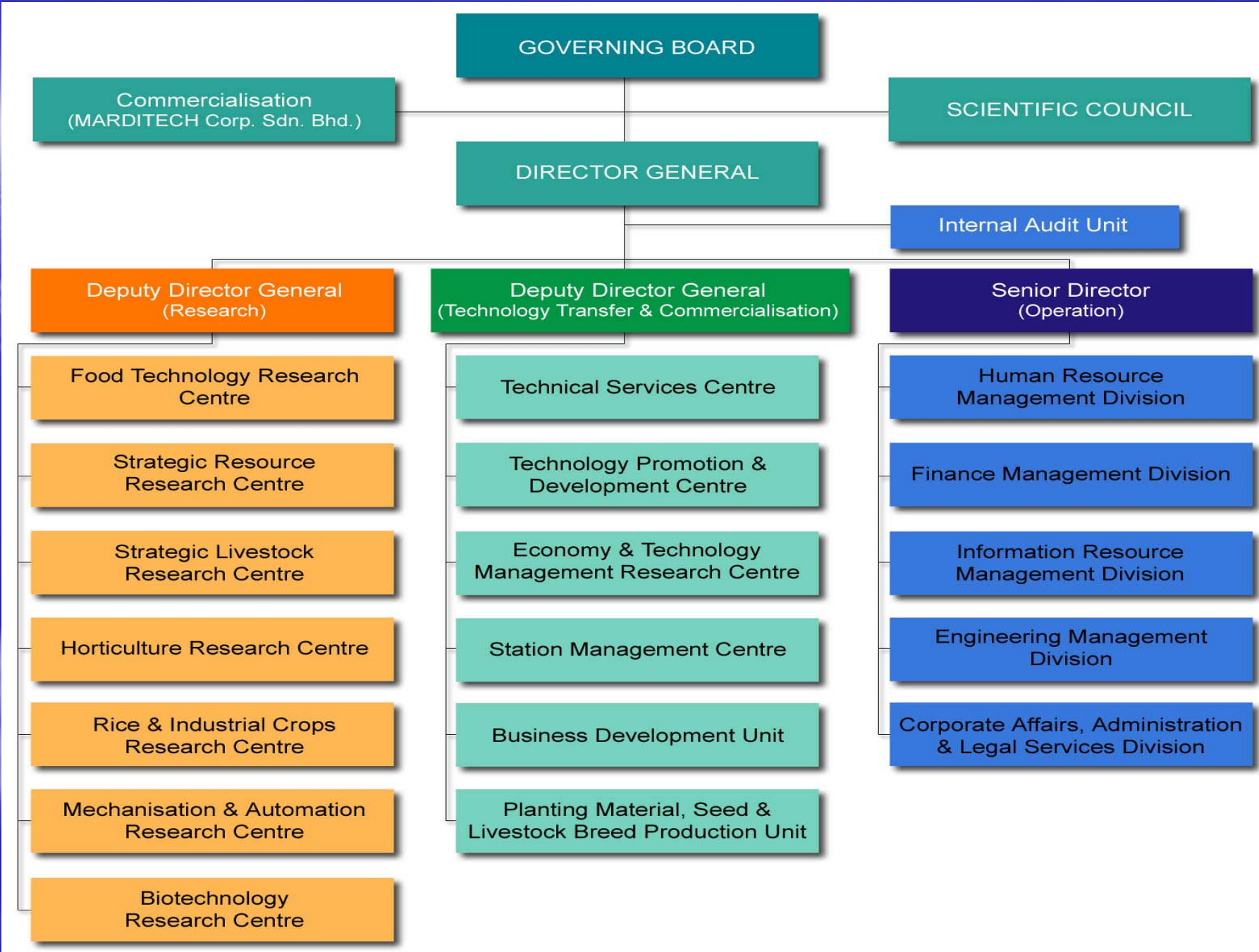
# Implementing MLS & the use of SMTA in Malaysia: The Way Forward

MARDI

# Implementation in Malaysia

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- National Focal Point : Ministry of Agriculture & Agrobased Industry (MOA)
  - Sustainable Development Unit
  - Current staff: Ms. Yeoh Gim Bee, Mr. Zulkifli Yaacob
- Implementing Agency : Malaysian Agriculture Research & Dev. Institute (MARDI)
  - Strategic Resources Research Centre (SR)
  - Leader : Dr. Mohd. Shukor Nordin, Zulhairil Ariffin, Muhammad Shafie & Mohd. Norfaizal



# Why Malaysia Ratified ITPGRFA?

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- Increased food security
- Farmers' Rights
- Greater variety of foods, and of agriculture products
- Public and private sectors assured access to a wide range of genetic diversity for agricultural development
- We receive more than what we provide

# Actions Taken

## MARDI's EFFORTS

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- Series of discussions with Mr. Lim Eng Siang
- Discussion with Mr. Paul Quek, staff of Bioversity International (GENE-IT usage)
- Briefing to breeders and key personnel in MARDI
  - Good responses
  - presenting a draft of 'pictorial guide of crops in Annex 1
- MLS and exchange material procedures proposed
  - Depositing PGRFA into MLS
  - Material exchange
  - Monitoring



# List of ANNEX I - Malaysian species

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- There were 36 genera of food crops, 11 genera of grass forages, 15 genera of legumes forages and 2 genera of other forages included in this ANNEX I
- In **Malaysia**; such as Breadfruit, Brassica, Citrus, Coconut, Major aroids, Yams, Strawberry, Sunflower, Sweet potato, Banana, Oryza, Beans, Potato, Eggplants, Maize and Cassava.

Some of the listed species...



*Artocarpus communis*



*Manihot esculenta*



*Colocasia esculenta*



*Musa acuminata*



# Continued.....



*Solanum ferox*



*Vigna* spp.



*Solanum melongena*



*Ipomoea batatas*



*Vigna caracalla*

[Pictorial guides](#)

• individual/ Research centres  
(DONOR)

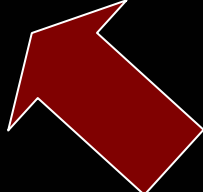
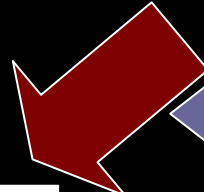
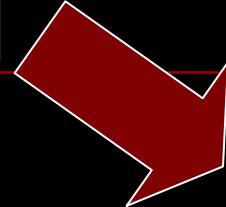
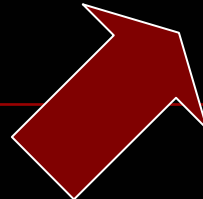
•REQUEST  
(RECEPIENT)

ITPGRFA's  
SECRETARIAT  
IN MARDI

GENE-IT

**MULTILATERAL SYSTEM (MLS)**

- ID number will be given manually
- A website which contain the MLS database





**INSTITUT PENYELIDIKAN DAN KEMAJUAN  
PERTANIAN MALAYSIA**

**PERMOHONAN KEMASUKAN AKSESI KE DALAM SISTEM MULTILATERAL  
(MLS)**

Kepada ;

**Sekretariat ITPGRFA**

Program Pengurusan dan Penggunaan Sumber Biologi,  
Pusat Penyelidikan Sumber Strategik,  
MARDI.

Tuan / Puan,

Dengan ini, saya seperti di bawah, ingin memasukkan aksesori berikut ke dalam Sistem Multilateral (MLS).

Nama : **Muhammad Shafie Md. Sah**  
Jawatan : **Pegawai Penyelidik**  
Pusat/Bahagian : **Pusat Penyelidikan Sumber Strategik**  
Telefon : **03-8943 7915**  
E-mel : **shafiems@mardi.gov.my**

Bil.	No. Untuk ID Aksesori	Nama Vernakular	Nama Sainifik	Sumber Diperolehi	Passport data (Ada/Tiada)	Maklumat lain
1	MDISR 776	Terung pipit	Solanum torvum	MARDI	Ada	-
2	MDISR 389	Kacang panjang	Vigna unguiculata	MARDI	Ada	-
3	MDISR 100	Kacang boncis	Phaseolus vulgaris	MARDI	Ada	-
4	MDISR 101	Kacang boncis	Phaseolus vulgaris	MARDI	Ada	-
5	MDISR 102	Kacang boncis	Phaseolus vulgaris	MARDI	Ada	-
6	MDISR 121	Sawi	Brassica juncea	MARDI	Ada	-

Justeru itu, aksesori ini adalah terbuka untuk sebarang pertukaran sama ada di antara institusi tempatan atau luar Malaysia dan tertakluk kepada sistem MLS.

Sekian, terima kasih.

Saya yang menurut perintah,

Disokong oleh,

.....  
**(MUHAMMAD SHAFIE MD. SAH)**  
Pegawai Penyelidik,  
Pusat Penyelidikan Sumber Strategik.

.....  
**(DR. MOHD. YUSOFF ABDULLAH)**  
Pegarah,  
Pusat Penyelidikan Sumber Strategik.

(untuk kegunaan sekretariat)

## Donor's Responsibility

1. List out PGRFA complete with passport data and other relevant information.
2. Fill up the form to deposit the PGRFA
3. Submit the form to ITPGRFA's secretariat



# INSTITUT PENYELIDIKAN DAN KEMAJUAN PERTANIAN MALAYSIA

## MULTILATERAL SYSTEM (MLS)

Accessions under MLS

Genus – Crop name

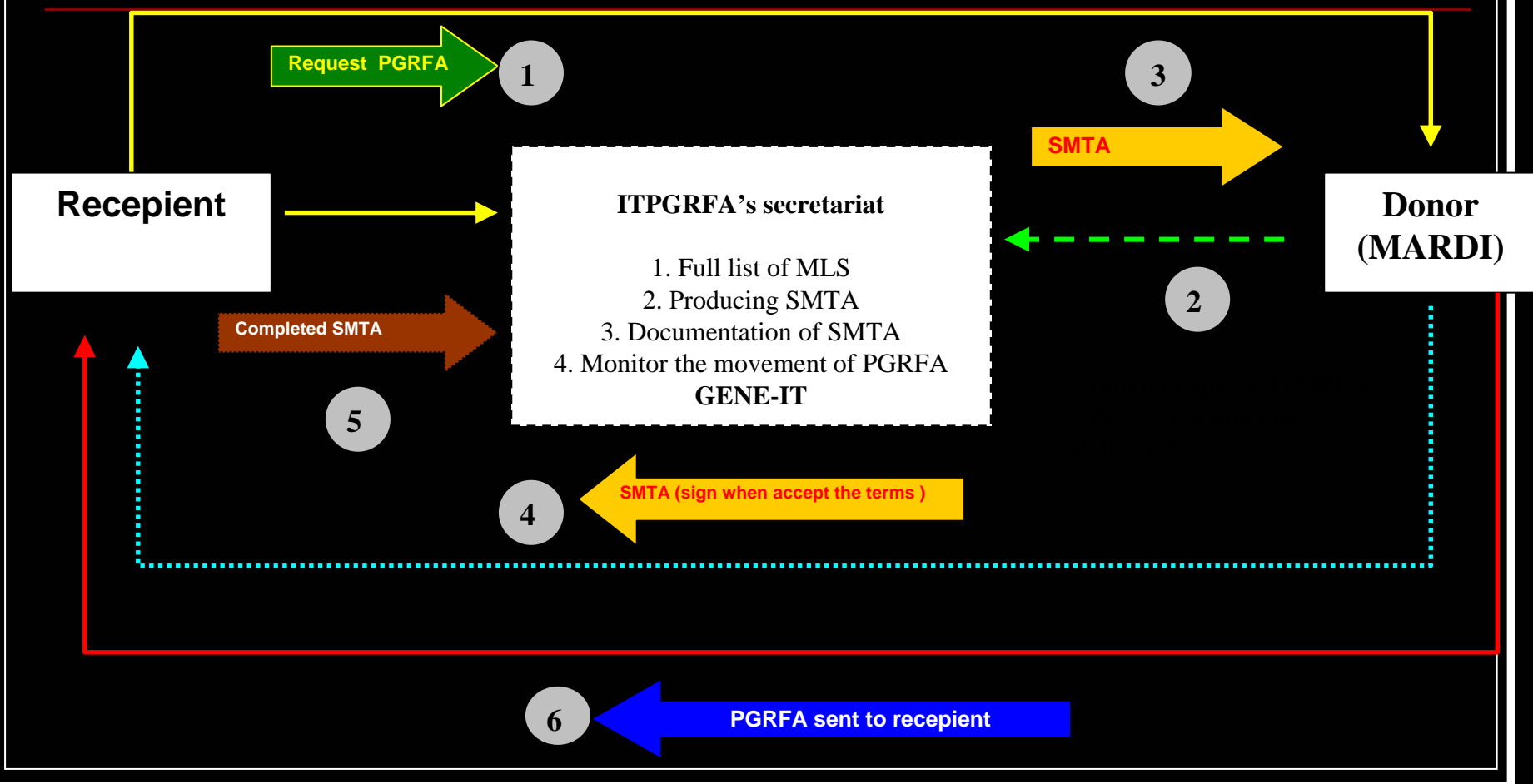
### A ) Oryza – Rice, padi

Bil.	Index No.	Accession ID	Vernakular / Variety / clon	Scientific Name	Source	Passport data (Yes/No)	Additional Info (economic traits, resistant to disease, tolerant to flood)	Contact person	Location
1	MDI01 00001	RGB 00200	Pongsu seribu	Oryza sativa	MARDI	Yes	-	Ms. Site Noorzuraini	Seberang Prai, MARDI
2	MDI01 00002	RGB 00201	Pongsu seribu	Oryza sativa	MARDI	Yes	-	Ms. Site Noorzuraini	Seberang Prai, MARDI
3	MDI01 00003	RGB 00202	Pongsu seribu	Oryza sativa	MARDI	Yes	-	Ms. Site Noorzuraini	Seberang Prai, MARDI
4	MDI01 00004	RGB 00221	Padi pulut	Oryza sativa	MARDI	Yes	-	Ms. Site Noorzuraini	Seberang Prai, MARDI
5	MDI01 00005	RGB 00224	Padi pulut	Oryza sativa	MARDI	Yes	-	Ms. Site Noorzuraini	Seberang Prai, MARDI
6	MDI01 00006	RGB 00245	Jawi lewat	Oryza sativa	MARDI	Yes	-	Ms. Site Noorzuraini	Seberang Prai, MARDI
7	MDI01 00007	RGB 10268	Putih perak	Oryza sativa	MARDI	Yes	-	Ms. Site Noorzuraini	Seberang Prai, MARDI
8	MDI01 00008	RGB 21994	Taring pelanduk	Oryza sativa	MARDI	Yes	Aerobic rice	Mr. Hisham	Tg. Karang, MARDI
9	MDI01 00009	RGB 55978	RC 234	Oryza sativa	IRRI	Yes	-	Mr. Hisham	Tg. Karang, MARDI
10	MDI01 00010	RGB 65000	RC 544	Oryza sativa	IRRI	Yes	-	Mr. Hisham	Tg. Karang, MARDI

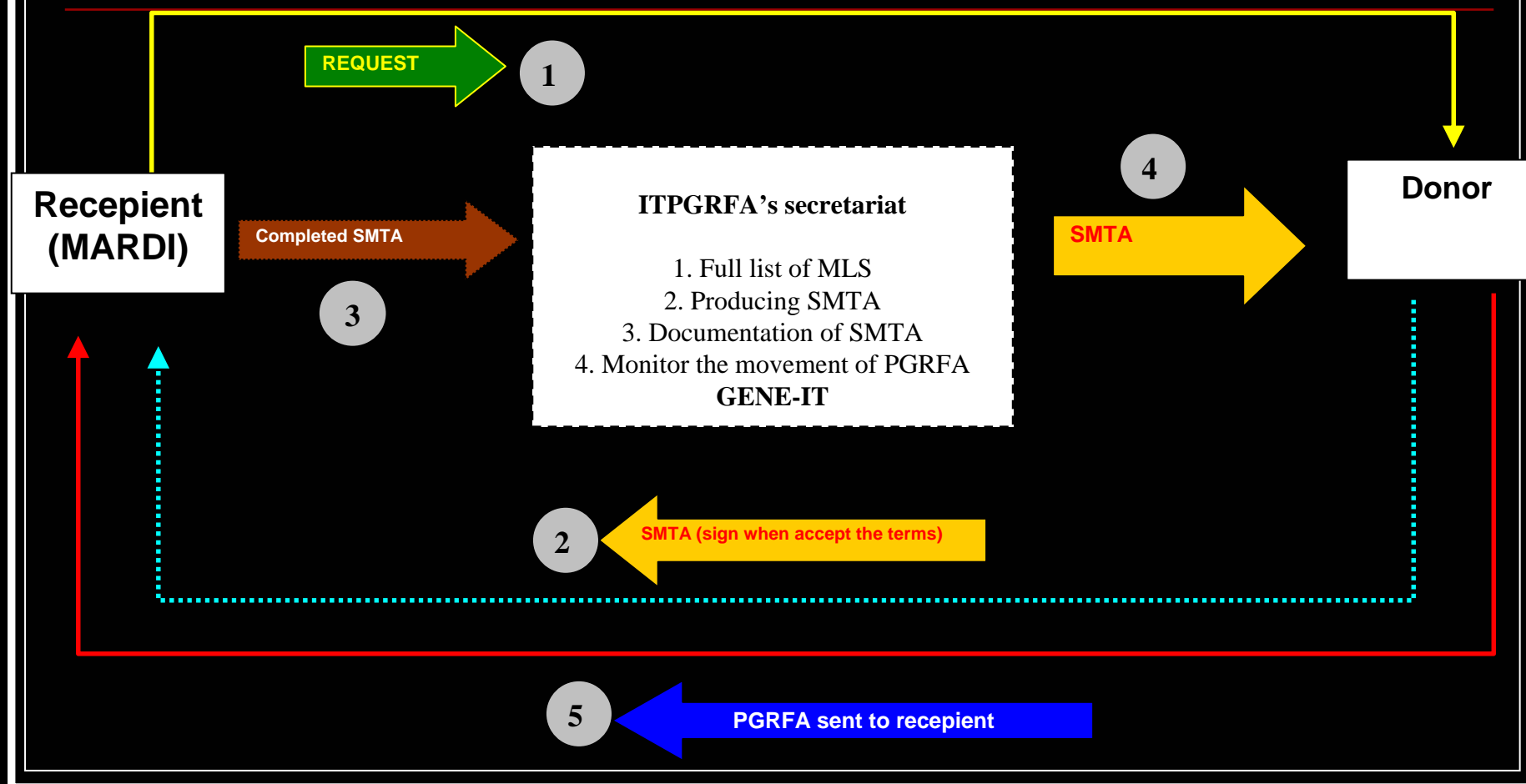
### B ) Solanum – Eggplant (terung)

Bil.	Index No.	Accession ID	Vernakular / Variety / clon	Scientific Name	Source	Passport data (Yes/No)	Additional Info (economic traits, resistant to disease, tolerant to flood)	Contact person	Location
1	MDI02 00001	DINO03-0145	Terung bulat	S. melongena	MARDI	Yes	High yield	Dr. Mohd. Shukor Nordin	Serdang, MARDI
2	MDI02 00002	DINO03-0146	Terung bulat	S. melongena	MARDI	Yes	-	Dr. Mohd. Shukor Nordin	Serdang, MARDI
3	MDI02 00003	DINO03-0147	Terung telunjuk	S. melongena	AVRDC	Yes	-	Dr. Mohd. Shukor Nordin	Serdang, MARDI
4	MDI02 00004	DINO03-0148	Terung telunjuk	S. melongena	AVRDC	Yes	-	Dr. Mohd. Shukor Nordin	Serdang, MARDI
5	MDI02 00005	DINO04-0356	Terung pipit	S. torvum	MARDI	Yes	-	Mr. Muhammad Shafie	Kluang, MARDI
6	MDI02 00006	DINO04-0357	Terung pipit	S. torvum	MARDI	Yes	-	Mr. Muhammad Shafie	Kluang, MARDI
7	MDI02 00007	DINO04-0358	Terung pipit	S. torvum	AVRDC	Yes	-	Mr. Muhammad Shafie	Kluang, MARDI
8	MDI02 00008	DINO02-0221	Terung asam	S. ferox	MARDI	Yes	Resistant to fungus	Mr. Muhammad Shafie	Kluang, MARDI
9	MDI02 00009	DINO02-0222	Terung asam	S. ferox	AVRDC	Yes	-	Mr. Zulhairil Ariffin	Cameron Highland, MARDI
10	MDI02 00010	DINO02-0223	Terung bulu	S. ferox	AVRDC	Yes	-	Mr. Zulhairil Ariffin	Cameron Highland, MARDI

# PGRFA Request to MARDI



# PGRFA request by MARDI



# Need consideration...

- ~~Who should sign the SMTA;~~
  - 1) Director General of MARDI
  - 2) Director of Centre
  - 3) Secretariat of IT in MARDI
  - 3) the recipient/ breeder
- PGRFA under the management ;
  - 1) Federal Gov. – relevant to several ministries
  - 2) State Gov.
  - 3) Private/commercial partners

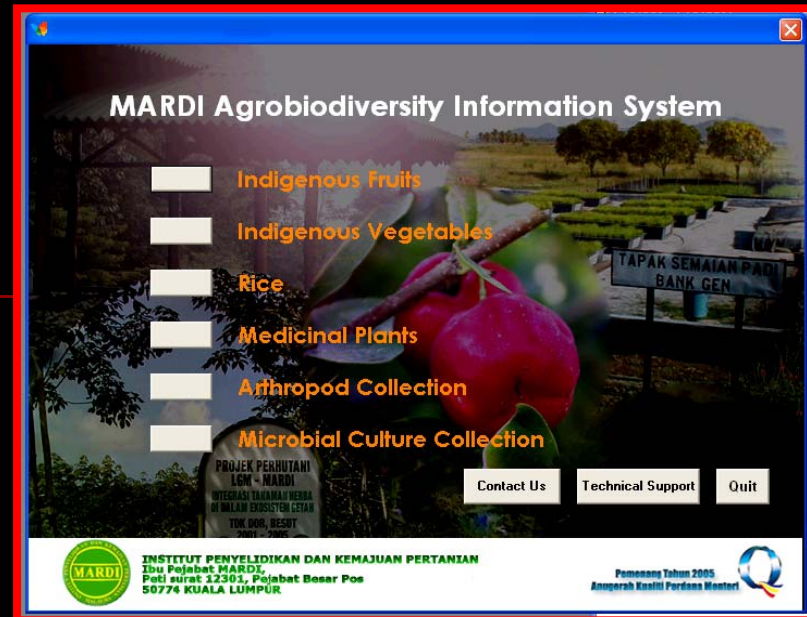
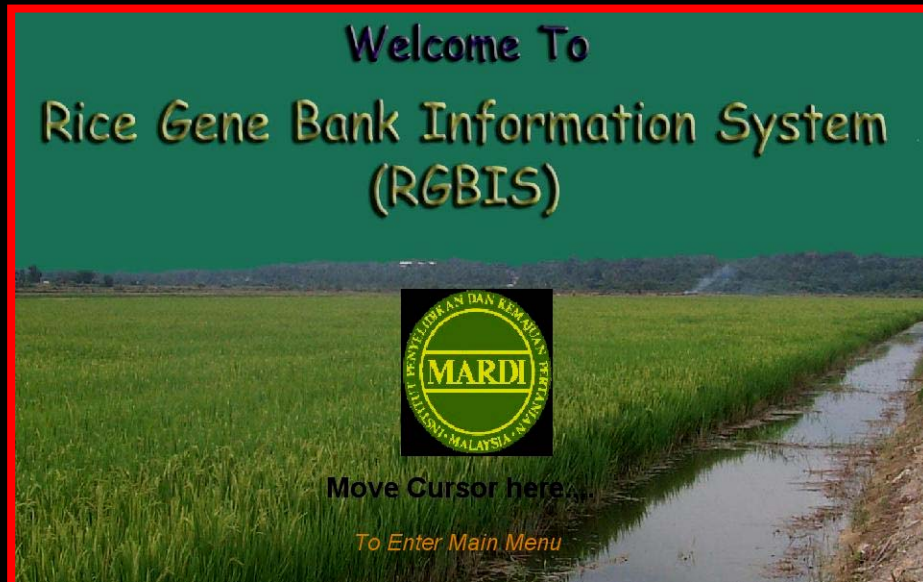
# Future Plan

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- Work closely with the Ministry of Agriculture & Agrobased Industry (MOA)
- Presenting a proposal paper at the MOA Management Meeting
- Setting up the national committee at Ministry level
- Cabinet paper for approval
- Public awareness amongst the PGRFA stakeholder – Seminar/ workshop



Individual genetic resources  
databases  
Crops - rice, fruits, herbs,  
vegetables  
Arthropods  
Microbes



Centralised integrated  
database is  
being developed



# THANK YOU

