



# **Current Situation of New Plant Variety Protection System in Myanmar**

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# Introduction

- Climate**
  - **Diverse agro-ecological conditions**  
( **Tropical, Sub-tropical, Temperate**)
- Crop**
  - **Rich bio-diversity (over 60 species)**
  - **Rich land and water resources**
- Agricultural country**
  - **GDP - 26 %**
  - **Export earnings - 16.4 %**
  - **Labor force - 61.2 %**

**Source : Myanmar Agriculture in Brief 2013,DAP, MOAI**

## **Introduction(continued)**

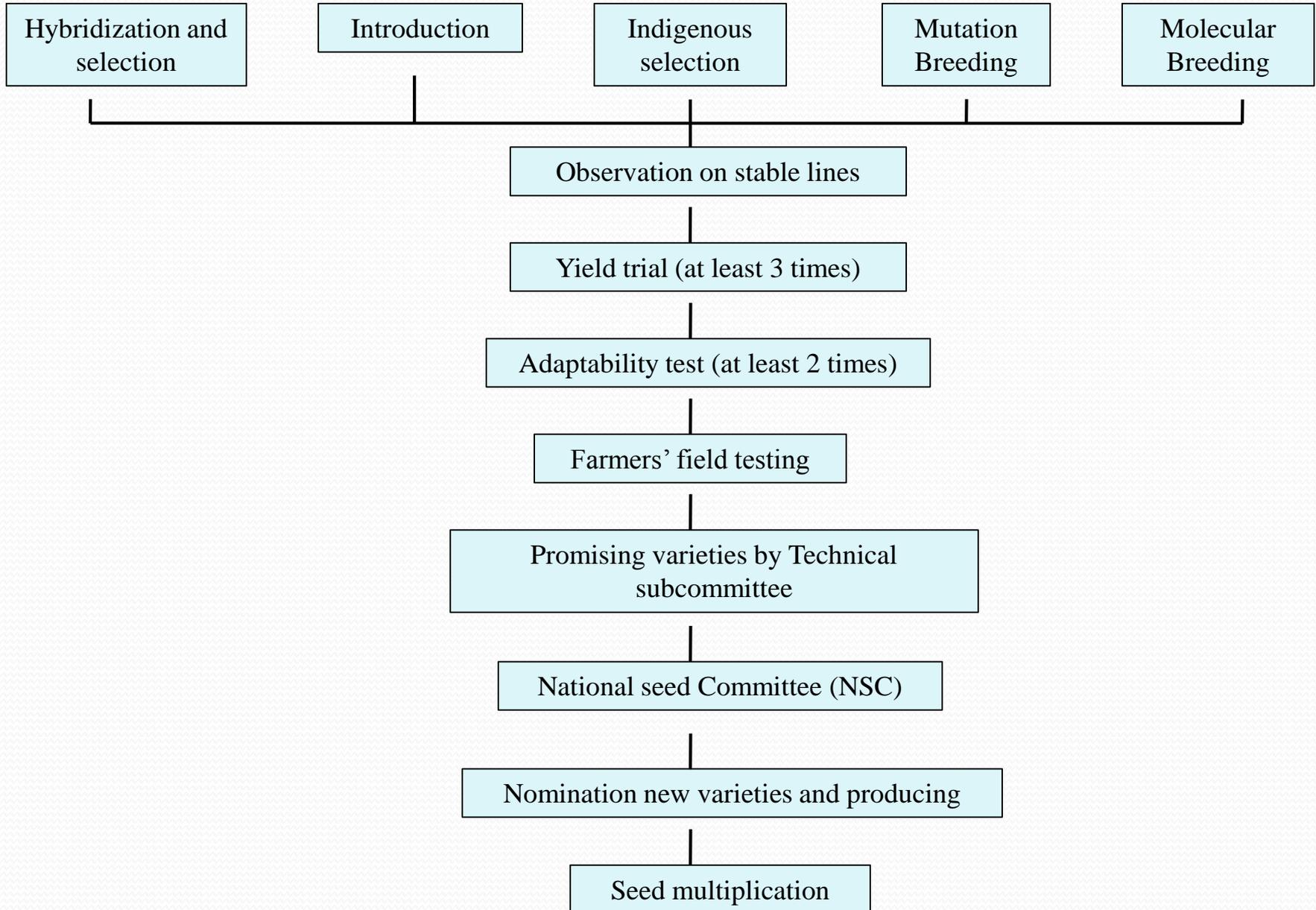
<b>Sown area</b>	<b>- Cereal</b>	<b>(39.7%)</b>
	<b>- Pulses</b>	<b>(21.2%)</b>
	<b>- Oilseeds</b>	<b>(16.2%)</b>
	<b>- Industrial crops</b>	<b>(4.8%)</b>
	<b>- Horticultural crops</b>	<b>(1.6%)</b>
	<b>- Other Crops</b>	<b>(16.5%)</b>

**Source : Myanmar Agriculture in Brief 2013,DAP, MOAI**

# Ministry of Agriculture and Irrigation

- 1. Department of Agricultural Planning**
- 2. Department of Agriculture (DOA)**
- 3. Department of Industrial Crops Development (DICD)**
- 4. Department of Agricultural Research (DAR)**
- 5. Settlement and Land Records Department**
- 6. Irrigation Department**
- 7. Agricultural Mechanization Department**
- 8. Water Resources Utilization Department**
- 9. Myanmar Agricultural Development Bank**
- 10. Yezin Agricultural University**
- 11. Survey Department**

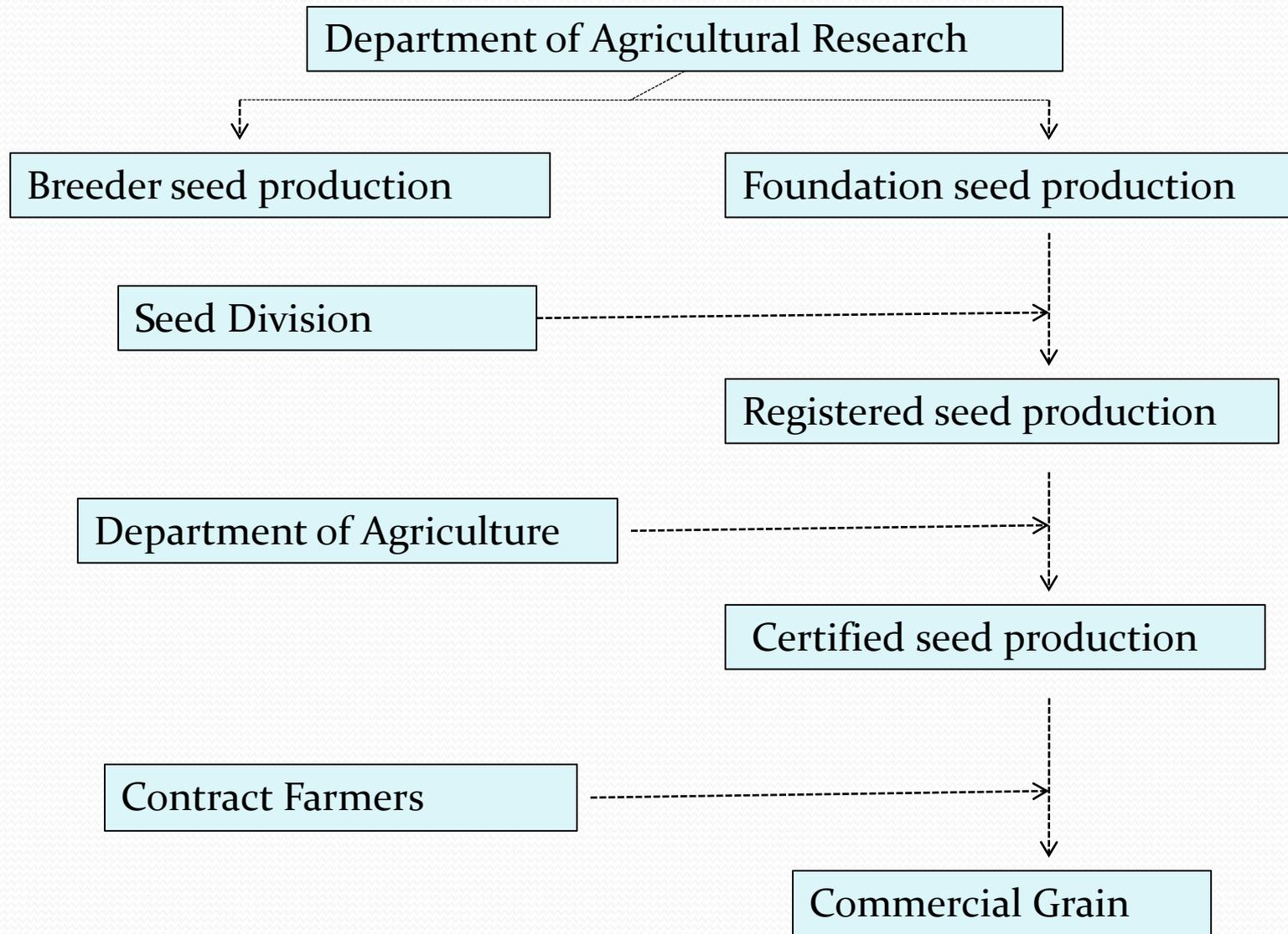
# Procedure for New Varieties in Myanmar



## Released Varieties in 2013-2014

<b>1.</b>	<b>Rice</b>	<b>9</b>
<b>2.</b>	<b>Hybrid corn</b>	<b>2</b>
<b>3.</b>	<b>Sweet corn</b>	<b>3</b>
<b>4.</b>	<b>Wheat</b>	<b>6</b>
<b>5.</b>	<b>Groundnut</b>	<b>1</b>
<b>6.</b>	<b>Sesame</b>	<b>1</b>
<b>7.</b>	<b>Pulses</b>	<b>8</b>
<b>8.</b>	<b>Vegetable</b>	<b>1</b>

# Seed Flow



# Genetic Resources in Myanmar

- **Seed Bank was established in 1990**
- **Collected accessions** - **483**
- **Characterization, Evaluation (Rice)** - **1095**
- **and Data management (Landrace)** - **137**
- **(other)** - **230**
- **Short term storage (10°C)** - **12370**
- **Medium long term (-5°C)** - **12130**

# **Collaborative Program and Achievements**

- **Exchange of germplasm with IRRI**
- **Joint characterization & evaluation with ICRISAT**
- **National distribution - 4617 germplasms(10 crops)**
- **International distribution - 7472 germplasms(18 crops)**  
**(Thailand, Japan, Korea, Columbia, Belgium, Norway)**
- **Morphological characterization data of Rice catalogue vol.1 has been published in 2009. (4500 accessions)**

# **Present Situation of Seed Industry in Myanmar**

- **Enacted on 7 February , 2011**
- **Embodies the foundation of the seed industry**
- **Takes effect 2 years after (7 February, 2013)**
- **Seed development projects started in 1977**
- **Seed flow – DOA, DAR , Private seed companies**
- **National seed committee established in since 2004 supervises seed programs**
- **Both public and private sector need strengthening in seed industry**
- **Needs strong seed certification system and valid quality control system**
- **Strengthening of seed industry requires both local support and international assistance**

# Seed Industry Development

- **Area coverage under major crop**  
(Cereal crops- 38%, Oil crops- 20%, Pulses- 15%, Industrial crops – 4%)
- **All countries indentify under developed seed industry as the main factor limiting agricultural productivity**
- **Majority of the farmers are still producing their own seeds or using the grains as seeds**
- **Urgent need in Myanmar to enhance the seed replacement rate of various crops**

# **Trust Areas for Seed Development**

- ❖ **Variety development, protection and production**
- ❖ **Quality assurance**
- ❖ **Seed distribution and marketing infrastructure facilities**
- ❖ **Transgenic plant varieties**
- ❖ **Import of seeds and planting materials**
- ❖ **Export of seeds**
- ❖ **Promotion of seed industry**
- ❖ **Strengthening of monitoring system**

# Myanmar Seed Law

- **has been drafted since 2000, repeatedly under review and revision.**
- **recently been submitted to the Attorney General's office for approval and enactment , also sent to UPOV**
- **grants the protection to new plant varieties and encourages Research and breeding of new varieties**
- **particularly in the private sector in line with Myanmar's obligations under TRIP agreement**
- **Farmers right to save, use, exchange, share and seeds for commercial purpose**

## **Activities on Awareness of PVP system**

- **Became a party to the Convention of Biodiversity in 1994**
- **Became a member of WTO in 1995**
- **Became aware of Intellectual Property Rights**
- **2004 - Participated to the UPOV- INGER Workshop**
- **2006 - Participated to conduct DUS test (INGER)**
- **2012 - PVP System Awareness Raising Seminar in Myanmar**
- **2003-2014 - PVP related Trainings, Workshops, Seminars**

# **Future Plan**

- **To set up PVP office**
- **Collection of Reference varieties of main crops**
- **Continuous orientation of the staff on the use of UPOV CD-ROM**
- **In Country Training for Human Resource Development on plant variety system management**
- **Evaluation of Groundnut and Sesame varieties to assist for Development of Reference Varieties and National Test Guidelines**

# Conclusion

- **Realize the establishment of PVP system**
- **Is inevitably important in Agriculture for the protection of plant breeder rights**
- **Require expertise from national and international organizations**
- **Needs national and international training and seminar**
- **must and urgent need to establish in Myanmar for the collaboration and cooperation in agriculture with the international organizations**

Thank you

