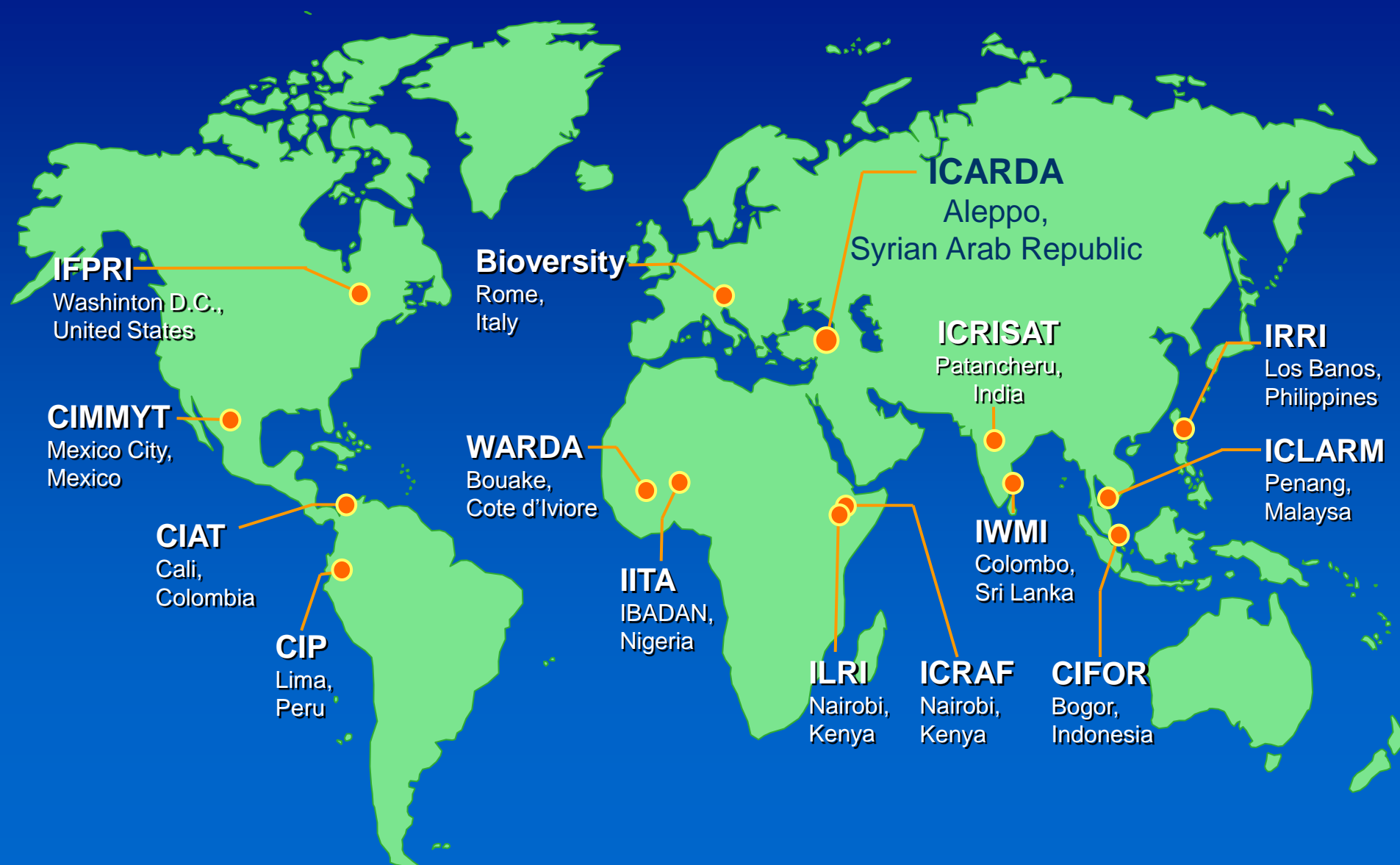


*International Perspectives on IPM:
the CGIAR Experience*

M. El Bouhssini and S. Lhaloui

The CGIAR Centers



IPM Sunn pest (ICARDA)

- **National policies in West Asia changed: government-supported aerial sprays replaced with ground applications by farmers.**
- **Revised ETs implemented, resulting in reduced pesticide use.**



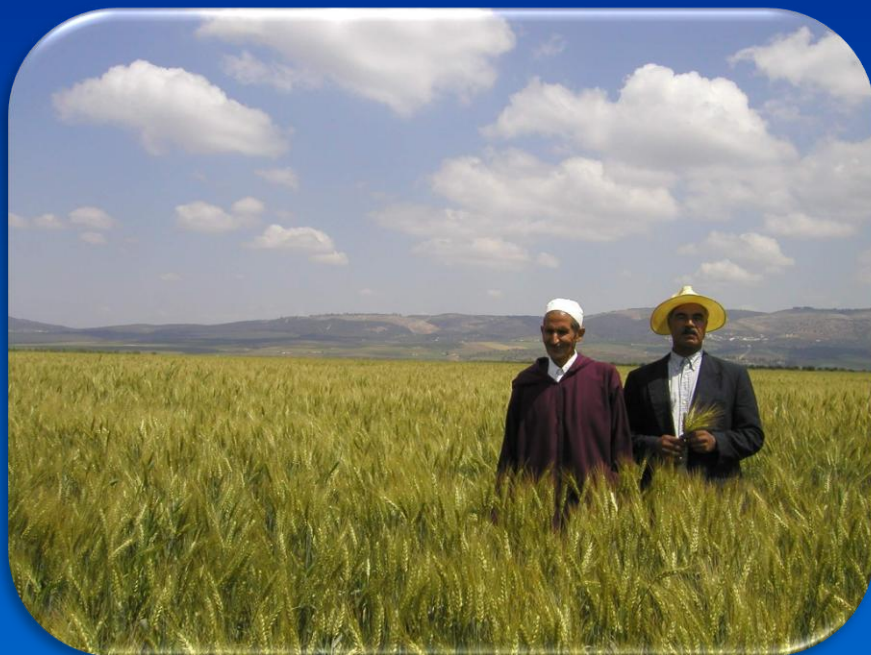
Sunn pest IPM options

- Cultural practices
- Hand collection of Sunn pest in overwintering sites
- Use of insect-killing fungi
- Enhancement and conservation of egg parasitoids



IPM Hessian fly

In collaboration with INRA-Morocco, 3 bread wheat and 6 durum wheat Hessian fly resistant varieties released



IPM options for Hessian fly

- **Early planting date**
- **Resistant varieties**



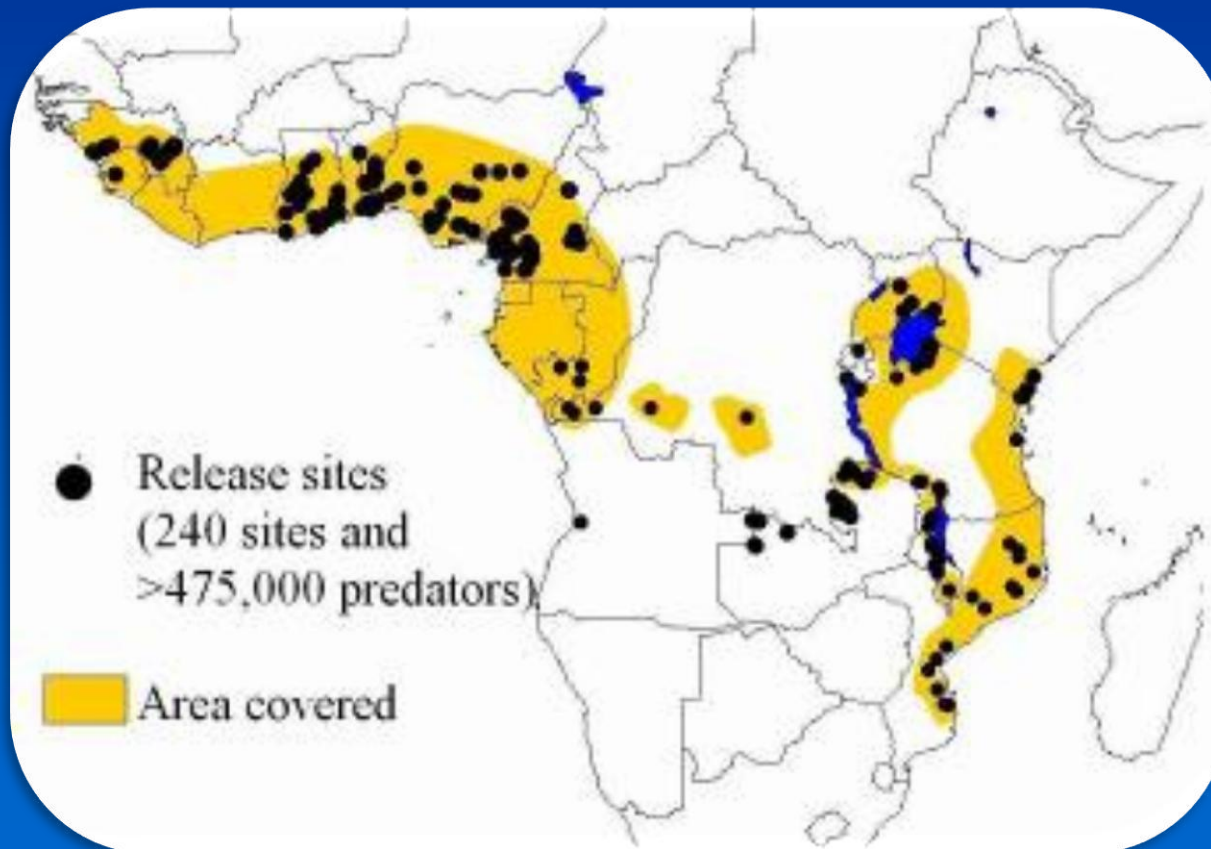
Dissemination of IPM outputs

Working closely with extension services, NGO's, and farmers using participatory approaches such as Farmers Field Schools



IPM at IITA

Biological control of Cassava mealy bug and cassava green mite



Rice IPM (IRRI)

- **Development of host plant resistance in high yielding varieties**
- **Economic threshold levels developed for all major rice pests**
- **Farmer education, farmer experimentation becomes cornerstone of IPM education**



IPM Chickpea Pod borer (ICRISAT)

- **Adult monitoring using pheromone traps**
- **Intercropping with coriander**
- **Use neem oil or neem seed extract**
- **NPV sprays**
- **Tolerant cultivars**



Potato IPM (CIP)

Strategies	PTM complex		
	CPTM	APTM	GPTM
Cultural	++	++	+
Biological control			
• Inoculative (classical)	++	-	++
- Bacteria (<i>Bt</i> in storage)	+++	+++	+++
- Baculovirus (storage)	+++	-	++
Use of biorationals			
• Pheromone (monitoring)	+++	+++	+++
Physical			
• Sticky traps	-	-	-
Chemical	++	++	+

Efficacy:+++ high — not available; red = adoption reported

CGIAR SP-IPM: Learning, application, dissemination

Field activities

- Pilot learning sites
- Mentored FPR/FPL exchanges for NARS/NGOs

www.spipm.cgiar.org

Technical innovation briefs

Research and field guides

Partnership news

Symposia/congresses (IAPPS/IPPC)

Project and expertise database



Remove disconnect between
breakthrough and delivery

Lessons Learned

- **Involve policy makers in priority setting and implementation**
- **ICPM: grow a healthy crop – most pest problems occur in fields with other problems (fertilizer imbalance, diseases, etc)**
- **Support farmers to become IPM experts (FFS etc)**



IPM hurdles

- Sustainability (little investment in agricultural R&D)



- Availability of IPM options (legislation for registering biopesticides, cost, seed systems)



IPM hurdles (Cont.)

- **Illiteracy: difficult to increase awareness, IT-based methods ineffective**
- **Food safety regulations for local consumption: missing or not properly enforced**



Thank you

