

Distinguishing among PPB approaches

Key Variables

Institutional Context

- * Research Institute**
- * Rural Community**

Goals of PPB

Quality of Participation

KIND OF PARTICIPATION OR 'QUALITY'

▣ **Degree of Decision Making of Each Partner**

▣ **Stage of Involvement**

▣ **Role**

- * Provide technical leadership
- * Provide social organizational leadership
- * Provide key 'cultural information'
- * Act as Trainer/Skill builder

- * Effect Field Labor
- * Supply standard inputs (eg land)
- * Supply 'finished' materials
- * Facilitator role

IMPACTS:

**Linking Quality Science
and
Quality Participation**

Scope of Evidence

- **Inventory cases (47--- mounting to 80)**
- **10 small grants– closely monitored**
- **Regional proceedings:**
 - **Africa-wide**
 - **South and Southeast Asia**
 - **Latin American and the Caribbean**
- **State of the Art Papers**

‘State of the Art’ Papers Commissioned by PBG

- **Formal - led PPB**

**Technical and institutional issues in formally-led PPB:
Done from the perspective of formal plant breeding
Weltzien E; Smith M; Meitzner L; Sperling L.**

- **Farmer - led PPB**

**Technical and institutional issues in PPB:
Done from the perspective of farmer plant breeding
McGuire S; Manicad G; Sperling L.**

- **Biotechnology and PPB**

**Biotechnology-assisted PPB: Complement or Contradiction?
Thro AM; Spillane C.**

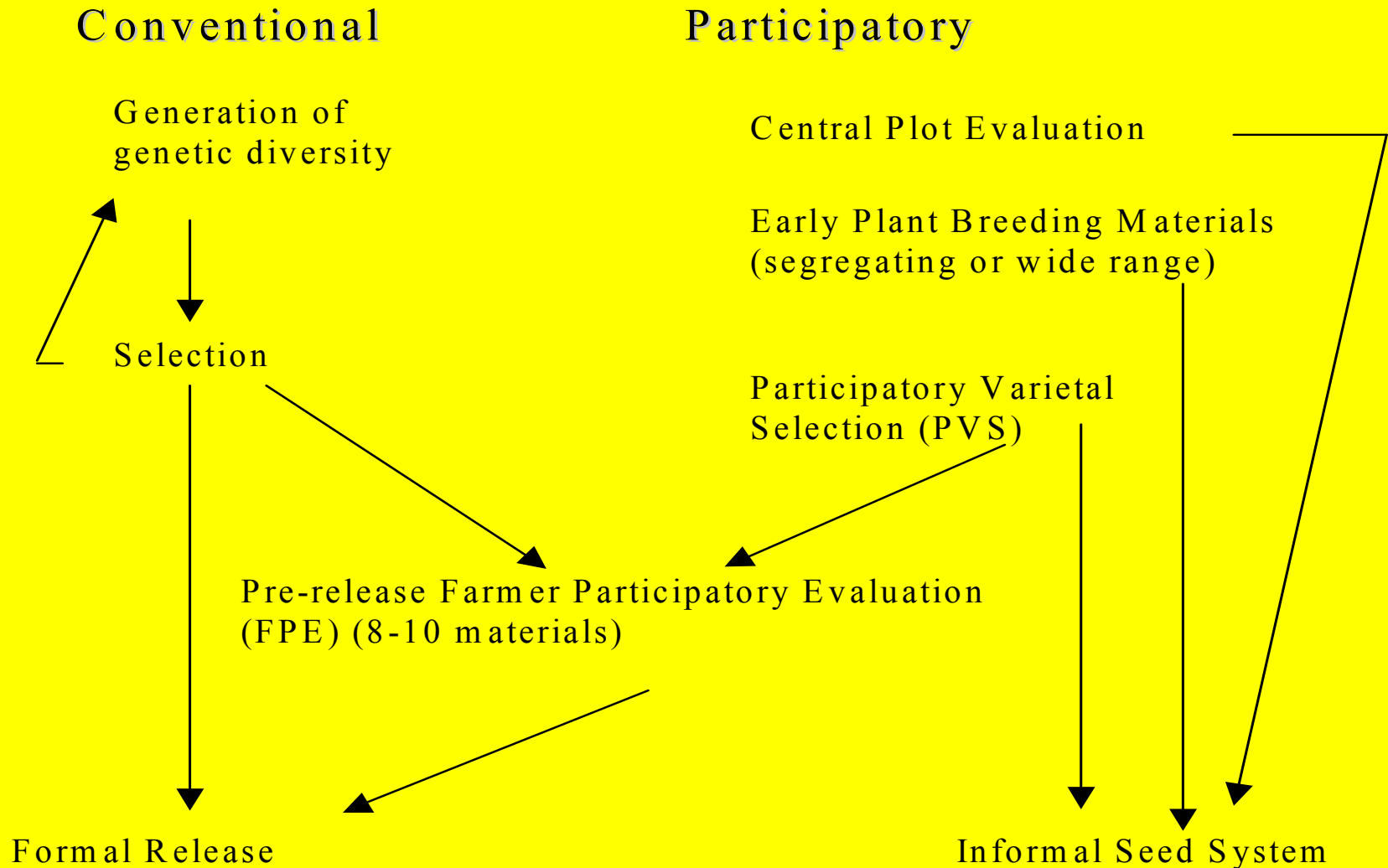
- **Gender / user and PPB**

**Gender and Participatory Plant Breeding
Farnworth, C. and Jiggins, J.**

Formal-led PPB

(locus: research institution)

The Relationship Between Formal-led Breeding Framework and Supporting Seed System



Formal-led participatory plant breeding: Goals of program development

(No. = 40 cases)

Goal (motivation)	Cases (no.)	Cases (%)
Productivity increase	31	78
Research efficiency	27	68
Biodiversity conserved/enhanced	8	20
Policy changes	5	13
Facilitate farmer learning	3	8
Other	3	8

Formal-led PPB Cases: Stage x Degree of Participation

(weltzien/smith et al. 2000– notes)

-	Defining Breeding Targets	Generating Variability	Selection in Early Segregating Populations	Variety Testing	Variety / Seed Multiplication + Distribution
Farmers provide land, responses (consultative)	2, 7, 7A, 14, 15, 19, 21, 22, 24, 25, 26, 27, 29, 32, 33, 35, 37, 39, 40 46	-	1, 8, 39, 42	1, 2, 16, 22, 25, 32, 35, 37, 40	-
Joint management (collaborative)	-	-	4A, 15, 29	6, 29, 32, 33, 37, 39	-
Farmer-led research with formal support (collegial)	-	1	B, 10?	3?, 10?, 11, 17, 19, 21, 24, 25, 27, 31, 34, 40	4B?, 46?, 11
Farmers make all/key decisions (community – initiated, farmer-led)	-	-	-	3?, 4A, 4B?, 46?	3?, 4A, 4B?, F546?, 11, 24

Novel 'PPB' Science Elements (process changes at institutional level)

- **Decentralization of screening sites**
- **Testing under 'farmer input levels'**
- **More use of local germplasm**
- **Large number of entries on farm**
- **Farmer evaluations—and feedback**
- **Farmer choice**
- **(sometimes farmer/community seed multiplication)**