

# Talented small scale farmers and committed researchers working together to develop climate change resilient crops



OXFAM

# Farmers Seed Systems: Scale Up PathwAys

Gigi Manicad, Sowing Diversity = Harvesting Security (SD=HS)



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## Why farmers' seeds matter?



Credit: Gigi Manicad

- Major source of diversity and foundation of PGRFA
- Complement *ex-situ* collections
- 80-90% farm saved seeds or from local markets; grow 60–70% of all food crops consumed locally
- 870 million are chronically hungry, 2 billion people suffer from “hidden hunger.” 70% live in rural areas and engaged in agriculture.
- Women managers of biodiversity
- 70% increase in demand for food by 2050

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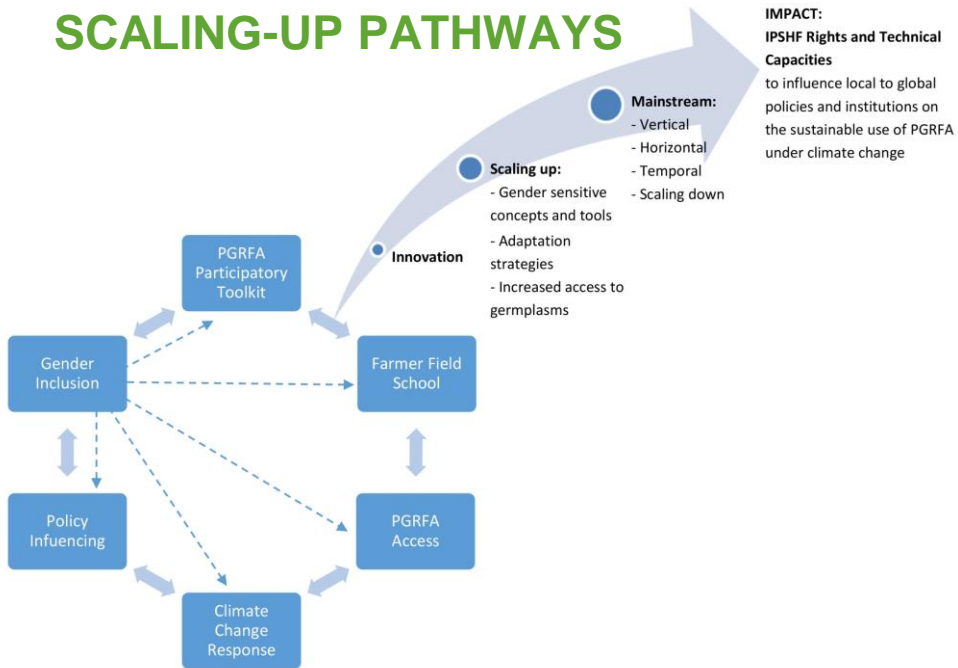
## Sowing Diversity = Harvesting Security (SD=HS)

- Strengthen farmers' seed systems (rights & technical) for food and nutrition security for climate change adaptations,
- 5 countries: Vietnam, Laos, Myanmar, Peru, Zimbabwe, 150,000 HH, 50% women
- Low land paddy fields, high mountain altitude, semi-arid region, high and low potential areas
- 50 Partners and allies: CSOs, IPSHF, governments, universities, national and international research institutions, private sector
- Donors: Sida, IFAD, Netherlands Post Code Lottery, Dutch government +++

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# SCALING-UP PATHWAYS



## Scale up Pathways

- \*Outputs are used within and outside programme coverage
- \*Enhanced impact on social, environmental or economic conditions
- \*How impact is spreading



Credit: B. Zagma

## PGRFA Participatory Toolkit

- Participatory diagnostic & planning, accountability tools

- Baseline & end line surveys: PRA, questionnaires, secondary data, FFS curriculum

- analyzing crop diversity, seed security, climate change perceptions, farmers' access and diversity management. Climate change adaptation, diet diversity

- disaggregated for women's needs and roles



Credit : Shepherd Tozvireva/Oxfam Novib

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## Farmer Field Schools pathway



Credit: ANDES

- School without walls, self-spreading (ToT), autonomous farmers' organization for sustainability & outreach,
- Farmers determine learning objectives for problem solving, joint experiments
- Ensure women's participation
- Individual and collective empowerment
- collaboration with public sector

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## PGRFA Access pathway

- Additional PGRFA , formal and informal, access is a constant demand
- *In-situ* & *ex-situ* collections, segregating, stable, near stable lines for multiple land use
- Matching & selection of preferred traits by women
- Traditional & scientific knowledge for selection, breeding, regeneration, multiplication
- Independent seed banks, at districts & households



Credit : Shepherd Tozvireva/Oxfam Novib

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## Climate Change Response



Credit: Shepherd Tozvireva/Oxfam Novib

- CC manifest differently by sites and seasons, farmers' resilience need support
- Meteorological data & farmers' observation/knowledge for agricultural planning
- Selection of stress tolerant crops & varieties
- Combination of late & early maturing varieties
- Disaster response in FFS

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## Gender & Social Inclusion pathway



Credit: Gigi Manicad

- Guided by a gender empowerment rationale, discrimination by gender, class & ethnicity
- Mainstream in all pathways, as most tools are gender blind
- Women's agency on seeds management: access and benefit

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## Policy Influencing pathway

- Most of national seed policies & laws do not recognize & support farmers' seed systems
- SD=HS engages local to global policy influencing based on evidences that are grounded & validated by indigenous & farming communities
- Provides models multi-stakeholder engagement



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Credit: Sacha de Boer

Thank you!

