

Ends					
Levers	Productivity	Resilience / Ecosystems Services <sup>1</sup>	Livelihoods (Income / Assets)	Nutrition for Human Health	Equity and Empowerment <sup>2</sup>
Systems diversification and risk management					
<b>Component improvement</b>	<ul style="list-style-type: none"> <li>Breeding “better” staples, non-staples, focus on neglected crops;</li> <li>seed systems</li> </ul>	<ul style="list-style-type: none"> <li>Stress tolerance (biotic; abiotic)</li> </ul>	<ul style="list-style-type: none"> <li>Higher and more consistent yields</li> </ul>	<ul style="list-style-type: none"> <li>Breeding for nutrient content</li> </ul>	
<b>Agroecological pest management</b>	<ul style="list-style-type: none"> <li>Reducing pest and disease losses</li> </ul>	<ul style="list-style-type: none"> <li>Reducing vulnerability</li> <li>Storage pest management</li> </ul>	<ul style="list-style-type: none"> <li>Access to organic / eco-markets</li> <li>Storage pest management</li> </ul>	<ul style="list-style-type: none"> <li>Reduced pesticide exposure</li> <li>Reduced mycotoxins</li> </ul>	
<b>Systems diversification</b>	<ul style="list-style-type: none"> <li>Focus on neglected crops covering multiple functions</li> <li>Improving systems efficiency; higher value products, including livestock and trees</li> </ul>	<ul style="list-style-type: none"> <li>Legume integration in cereal-based systems</li> <li>Systems design for resilience</li> </ul>	<ul style="list-style-type: none"> <li>Value chains for globally marginalized but locally important crops;</li> <li>Something to sell all year</li> </ul>	<ul style="list-style-type: none"> <li>Dietary diversity</li> <li>Traditional food products</li> <li>Protection of alternative crops that serve as subsistence/ cash safety nets in times of crisis</li> </ul>	<ul style="list-style-type: none"> <li>Disaggregation and use of knowledge systems, by gender, caste, ethnic group, etc.</li> </ul>
<b>Risk management</b>	<ul style="list-style-type: none"> <li>Crop diversification</li> <li>Systems design</li> <li>Managing pests and diseases</li> </ul>	<ul style="list-style-type: none"> <li>Crop diversification</li> <li>Coping with climate variability and change</li> </ul>	<ul style="list-style-type: none"> <li>Crop diversification</li> </ul>	<ul style="list-style-type: none"> <li>Crop diversification</li> <li>Smooth consumption</li> </ul>	
<b>Improving farm resource-use efficiency</b>	<ul style="list-style-type: none"> <li>Design of systems for improved performance (multi-functional); modeling</li> <li>Integrated soil fertility management</li> <li>Improved input (fertilizer) access</li> <li>Mechanization of small-seeded crops</li> </ul>	<ul style="list-style-type: none"> <li>Building soil fertility; water holding capacity</li> </ul>	<ul style="list-style-type: none"> <li>Increased profitability via improved input use efficiency and higher yields</li> </ul>		
Building social capital					
<b>Social/ technical innovation</b>				<ul style="list-style-type: none"> <li>Participatory video</li> </ul>	<ul style="list-style-type: none"> <li>Access to knowledge</li> </ul>
<b>Building human and social capital, and collective action<sup>3</sup></b>	<ul style="list-style-type: none"> <li>Farmer organization enhance technology access</li> </ul>	<ul style="list-style-type: none"> <li>Strengthening of social capital leading to more resilient systems</li> </ul>	<ul style="list-style-type: none"> <li>Credit schemes allow people to invest</li> <li>Farmer organization leading to more effective marketing and access to inputs</li> </ul>	<ul style="list-style-type: none"> <li>Consistent consumption (social insurance)</li> </ul>	<ul style="list-style-type: none"> <li>Designs to increase inclusiveness</li> <li>Strengthening power positions of the marginalized</li> </ul>
Markets and Policy					
<b>Improving functionality of value chains</b>	<ul style="list-style-type: none"> <li>Incentives based on market opportunities</li> </ul>		<ul style="list-style-type: none"> <li>Improving market access for smallholders</li> </ul>	<ul style="list-style-type: none"> <li>Dietary diversity through more diverse products</li> <li>Weaning foods</li> </ul>	<ul style="list-style-type: none"> <li>Ensuring participation of women and marginalized groups</li> </ul>
<b>Influencing policy</b>	<ul style="list-style-type: none"> <li>Subsidy provision; research investment</li> </ul>	<ul style="list-style-type: none"> <li>Subsidies for legumes (not just fertilizer)</li> </ul>		<ul style="list-style-type: none"> <li>Food safety; Support for nutrition education</li> </ul>	
<b>Cross-cutting capacities</b>	<ul style="list-style-type: none"> <li>Capacity building: student training; research methods (ex. participatory action research); integrated monitoring, evaluation and planning capacity; farmer-to-farmer learning; knowledge management</li> </ul>				

<sup>1</sup> Refers to multiple scales and how they function independently and integrated, with an explicit focus on global pressures.

<sup>2</sup> Refers to equality, empowerment, and inclusion of marginalized groups and cultures.

<sup>3</sup> Including gender, age, and marginalized groups