

Table S1. Lists of interventions for the crop and the livestock sectors

| Interventions Crop | Interventions Livestock |
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| Improving availability of materials | Improving availability of materials |
| Reintroduction of materials from ex situ collections | Introduction of semen and/or live animals from ex situ in vivo programmes (e.g. nucleus herds) |
| Reintroduction of materials from similar environments | Introduction of animal genetic resources from similar environments |
| Seed Cooperative for collection, distribution, and multiplication of seeds | Community-based livestock management |
| Community Seed Bank | Livestock fairs, exhibitions, and shows/agricultural fairs |
| Community Gene bank | Reduce transportation costs of traditional breeds to farmer communities |
| Community managed nurseries | Cross- and/or pilot-site visits for farmers and local extension workers |
| Diversity Field Fora (DFF) & Diversity Field School (DFS) | Microfinance or credit schemes to enable purchase of local materials |
| Diversity Kit | Support the use of local breeds in nucleus herds |
| Diversity Fairs | Introduction of semen/embryos and other genetic materials from ex situ conservation (NO in vivo) |
| Seed vouchers | |
| Reduce transportation costs of traditional variety material closer to farmer communities | |
| Cross site visits for farmers and local extension workers | |
| Microfinance or credit schemes to enable purchase of local materials | |
| Improving information and availability of information | Improving information and availability of information |
| On-farm Diversity blocks | Trials comparing traditional and modern breeds |
| Field or Laboratory trials comparing traditional and modern varieties | Community Biodiversity Registries. Livestock registries/herd books |
| Community Biodiversity Registries | Literacy training particularly for poor and vulnerable groups |
| Literacy training particularly for poor and vulnerable groups | Breeds information data bases made in farmer friendly format / Establish registries of local and native breeds. |
| Variety information data bases made in farmer friendly formats | Setting up information systems and internet connections for farmer access to information |
| Setting up information systems and internet connections for farmer access to information | Rural radio programs on the importance of crop and livestock diversity |
| Small weather stations that can be linked to internet sites | Drama, music, and poetry traveling shows that have agrobiodiversity as theme |
| Rural radio program that includes talks on the importance of crop biodiversity | Painting and art competitions that reward farmer groups for knowledge and descriptions of agricultural diversity |

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| Drama, music and poetry traveling shows that have crop biodiversity as the theme | |
| Painting and art competitions that reward farmer groups for knowledge and descriptions of agricultural diversity | |
| Improving traditional variety materials and their management | Improving traditional breed materials and their management |
| Participatory crop improvement (Grassroots breeding; Participatory Plant Breeding; Participatory Varietal Selection, Evolutionary breeding) | Improved breeding strategies |
| Using genomics to improve in situ crop populations | Conserving and using breeds with high genetic variation within the breed |
| Changing the formal breeding institutions to increase the use of farmer selection materials and traditional varieties in their programs | Breeding programs for breeds with small population sizes |
| Planting of intra-specific mixtures to reduce pests and diseases | Promote in situ conservation programmes to conserve, improve and use local AnGR |
| Improve seed storage facilities and methods | Identify, reinforce and/or establish artificial insemination infrastructures, including breeding cooperatives and companies |
| Seed cleaning/seed treatment | Micro credit facilities to set up technical activities particularly for rural men and women |
| | Strengthen and/or establish farmers' and livestock keepers' associations and breed societies |
| | Community based breeding program, animal identification and pedigree recording |
| | Improved strategies of management and raising practices |
| Improved Processing | Improved Processing |
| Shift retailers to use different processing equipment that can use diversified materials | Improve processing animal-derived products |
| Training of producers in improved processing | |
| Alternatives and modification to seed certification systems | Alternatives to Certification schemes relevant to Livestock |
| Plant varieties common knowledge (VCK) | Geographic Indications |
| Registration and release of farmers' varieties with acceptance of enhanced bulk varieties | |
| Geographic Indications | |
| Quality declared seed (QDS) - that certify the vendor rather than the seed | |
| Truthfully labeled seed Laws that focus on seed quality rather than seed purity | |
| Registries of native crops | |
| Links between intellectual property rights protection and benefit-sharing | |

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| Plant variety protection systems adapted to farmers varieties | |
| Benefit sharing to farmer communities for traditional variety access and use | |
| Participatory guarantee system | |
| Market creation and market promotion | Market creation and Market promotion |
| Market promotion through taxes and subsidies | Market promotion through taxes and subsidies |
| Market creation for traditional varieties or products from traditional varieties including niche markets | Market creation for traditional varieties and breeds or products from traditional varieties and breeds including niche markets |
| Education and financial support to farmers' groups to develop a marketing strategy | Education and financial support to farmers' groups to develop a marketing strategy |
| Micro credit facilities to set up small businesses particularly for rural men and women | Micro credit facilities to set up small businesses particularly for rural men and women |
| Advertisement campaigns to improve consumer and retailer awareness of important traits (nutritional, adaptive) | Advertisement campaigns to improve consumer and retailer awareness of important traits (nutritional, adaptive) |
| Cookbooks with traditional recipes; gardening books that promote traditional varieties for particular management practices | Cookbooks with traditional recipes; gardening books that promote traditional varieties for particular management practices |
| Fair trade price premiums - Eco-labeling (paying the full production value through price premiums) | Fair trade price premiums - Eco-labeling (paying the full production value through price premiums) |
| Reduction of transportation costs for crop products | Reduction of transportation costs for livestock products |
| Organization of meetings involving value-chain and market-chain actors to discuss how to enhance market potential. | |
| Building Partnerships and Trust | Building Partnerships and Trust |
| Private and public partnership for the construction of small infrastructure for the production of a better-quality product | Private and public partnership for the construction of small infrastructure for the production of a better-quality product |
| Strengthened and cooperative extension service that includes farmers, are more demand driven or establishment of new farmer-governed local institutions | Strengthened cooperative extension service that includes farmers, are more demand driven or establishment of new farmer-governed local institutions |
| | Organization of meetings involving value-chain and market-chain actors to discuss how to enhance market potential |
| Changing norms | Changing norms |
| Advertising and social campaigns that promote better adapted varieties that reduce need for chemical inputs to change social norms such as nutritional cultural values of food | Advertising and social campaigns that promote better locally adapted breeds for which fewer external inputs are required (e.g. vaccines, medicine, feed) |
| Academic curricula include traditional crop varieties as an agricultural resource and ecosystem service | Academic biology curriculum includes traditional crop varieties and local breeds as valuable agricultural resource and contributors to the delivery of ecosystem services |

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| Gender sensitive response policy | Gender and youth sensitive response policy |
| Strengthen and/or establish training programmes and extension services that include intra-specific diversity | Strengthen and/or establish training programmes and extension services that include intra-specific diversity |
| | Improve links between intellectual property rights and benefit-sharing in livestock |
| Promoting ecological land management practices | Promoting ecological land management practices |
| Environmentally sensitive areas (ESA) include high agrobiodiversity areas | Environmentally sensitive areas (ESA) include high agrobiodiversity areas |
| Establish and/or strengthen the management of Agrobiodiversity Zones | Establish and/or strengthen the management of Agrobiodiversity Zones |
| Agrobiodiversity Ecotourism | Support and regulate Agrobiodiversity Ecotourism |
| Organic farming and organic seed breeding with traditional variety used as planting materials | Organic farming with local breeds |
| Investment in agricultural research that includes the use of agricultural biodiversity within the production system | Investment in agricultural research that includes the use of agricultural agrobiodiversity within the production system |
| Agricultural biodiversity included in Environmental Impact Assessment of individual projects, policies and programmes | Agrobiodiversity included in Environmental Impact Assessment of individual projects, policies and programmes |
| Payment schemes for ecosystem services | Payment schemes for ecosystem services |
| Payment for Environmental Services (PES) schemes are established or reinforced | Payment for Environmental Services (PES) schemes are established or reinforced |
| Linking upstream and downstream communities | Linking upstream and downstream communities |
| Sharing of monetary benefits | Sharing of monetary benefits |
| | Payment schemes for the conservation of locally important breeds are established or reinforced |

Table S2. List of institutes/organizations by country which have collaborated in pro-poor agrobiodiversity assessments and interventions

| COUNTRY | INSTITUTION/ORGANIZATION |
|----------------|---------------------------------------------------------------------------------------------------|
| Algeria | Institut National de la Recherche Agronomique (INRAA); |
| Armenia | Armenian Agrarian University |
| Armenia | Armenian Forest NGO |
| Armenia | Env Public Alliance NGO |
| Armenia | Institute of Botany of Academy of Sciences |
| Armenia | Ministry of Nature Protection of the Republic of Armenia |
| Bhutan | National Biodiversity Centre (NBC), BHUTAN |
| Bolivia | Fundación para la Promoción e Investigación de Productos Andinos (PROINPA) |
| Burkina Faso | Centre National de la Recherche Scientifique et Technologique (CNRST) |
| Burkina Faso | Federation de Unions des Groupements Naam (FUGN) |
| Burkina Faso | Institut de l'Environnement et de Recherches Agricoles (INERA) |
| Burkina Faso | University of Ouagadougou |
| Burundi | Gitega, Muramvya, Mwaro, and Bujumbura Provincial Offices. |
| China | Chinese Academy of Agricultural Sciences (CAAS) |
| China | Chinese Academy of Tropical Agricultural Sciences, Hainan |
| China | Guizhou Academy of Agricultural Sciences |
| China | Kunming Institute of Botany |
| China | Minzhu University of China |
| China | Sichuan Academy of Agricultural Sciences (SAAS) |
| China | Yunnan Academy of Agricultural Sciences (YAAS) |
| China | Yunnan Agricultural University (YAU) |
| Cuba | Instituto de Investigaciones Fundamentales en Agricultura Tropical (INIFAT) |
| Ecuador | Facultad de Ciencias Agrícolas, Universidad Central del Ecuador |
| Ecuador | Instituto Nacional de Investigaciones Agropecuarias (INIAP) |
| Ecuador | Universidad Técnica Estatal de Quevedo (UTEQ) |
| Egypt | Academy of Scientific Research and Technology (ASRT) |
| Ethiopia | Addis Ababa University |
| Ethiopia | Ethiopian Biodiversity Institute (EBI) |
| Ethiopia | Institute of Biodiversity Conservation and Research |
| Ethiopia | Mekelle University |
| France | Institut de Recherche pour le Développement (IRD) |
| France | Institut National d'Etudes Supérieures Agronomiques de Montpellier |
| Hungary | Institute of Agrobotany |
| Hungary | Szent István Egyetem, Környezetgazdálkodási Intézet, Hungary |
| India | Indian Council of Agricultural Research (ICAR), New Delhi |
| Indonesia | Indonesian Centre for Horticulture Research and Development (ICHORD), Jakarta |
| Iran | Center for Sustainable Development and Environment (CENESTA), IRAN |
| Italy | Department of Environmental Biology, Università degli Studi "La Sapienza" di Roma, Italy |
| Jordan | National Center for Agricultural Research and Extension (NCARE), JORDAN |
| Kazakhstan | Farmers' Foundation in Kazakhstan, |
| Kazakhstan | National Agrarian University in Kazakhstan |
| Kyrgyzstan | Forestry Institute in Kyrgyzstan |
| Kyrgyzstan | Innovation Centre of Phytotechnologies of the National Academy of Sciences of the Kyrgyz Republic |

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| Kyrgyzstan | National Agrarian University in Kyrgyzstan |
| Kyrgyzstan | Research and Production Association 'Bogparvar |
| Malasia | Malaysian Agricultural Research and Development Institute (MARDI), Kuala Lumpur |
| Malawi | Programme for Rural Irrigation Development (PRIDE), s |
| Malawi | Phalombe, Machinga, Dowa, Mangochi and Karonga District Offices |
| Mali | Institut d'Economie Rurale |
| Mexico | CINVESTAV-IPN, Unidad Merida |
| Mexico | Colegio Postgraduados |
| Mexico | Ejido de Yaxcabá - Farmers' Union of Yaxcabá (NGO) |
| Mexico | Instituto Nacional de Antropología e Historia (INAH) |
| Mexico | Instituto Tecnológico Agropecuario (ITA) No. 2 of Conkal, Yucatan |
| Mexico | Instituto Tecnológico de Mérida |
| Mexico | Tecnológico Nacional de México/ Instituto Tecnológico de Conkal |
| Mexico | Tecnológico Nacional de México/ Instituto Tecnológico de Tlalpan, Meixco |
| Mexico | Universidad Autónoma Chapingo (UACH) |
| Morocco | ADL: Association of Local Development (NGO) |
| Morocco | ADRAR: Association of Local Development at Rich site. (NGO) |
| Morocco | DPA: Direction Provinciale de l'Agriculture |
| Morocco | Ecole Nationale d'Agriculture (ENA) |
| Morocco | Hassan II Institute of Agronomy and Veterinary Medicine (IAV) |
| Morocco | Institut National de la Recherche Agronomique (INRA) |
| Morocco | Moroccan Biodiversity and Livelihoods Association |
| Morocco | ORMVA: Regional Office of the Agriculture Section (for desert valley) |
| Nepal | Anamolbiu (Local private seed company) |
| Nepal | Animal Breeding Division, National Animal Science Research Institute |
| Nepal | Department of Agriculture |
| Nepal | Local Initiatives for Biodiversity, Research and Development LI-BIRD (NGO) |
| Nepal | Ministry of Agriculture |
| Nepal | National Agrobiodiversity Coordination Committee (NABC) |
| Nepal | National State Planning Commission |
| Nepal | Nepal Agricultural Research Council (NARC) |
| Niger | Institut National de la recherche Agronomique du Niger (INRAN) |
| Peru | Consortio para el Desarrollo Sostenible de Ucayali CODESU |
| Peru | Instituto Nacional de Investigaciones Agrarias INIA |
| Sri Lanka | Botanic Gardens, Dept of Wildlife Conservation, |
| Sri Lanka | Dept of Agrarian Services, Dept of Animal Production & Health, Dept of Export Agriculture, |
| Sri Lanka | Ministry of Indigenous Medicine, Meteorological Dept. Ministry of Agriculture and Ministry of En |
| Sri Lanka | Peradeniya Univeristy, |
| Sri Lanka | Ruhuna University, NGOs: Green Movement |
| Sri Lanka | SSIP Sevalanka |
| Sri Lanka | Wayamba Univeristy |
| Syria | Faculty of Agricultural, Tishreen University |
| Tajikistan | Horog State University, Tajikistan; |
| Tajikistan | Institute of Horticulture |
| Tajikistan | Research and Production Association 'Bogparvar', Dushanbe |
| Tanzania | Vice President's Office of the United Republic of Tanzania |
| Tanzania | Magu, Mkalama, Nzega, Kondoa, Micheweni District Offices |

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| Thailand | Department of Agriculture (DOA), Chatuchak, Bangkok |
| Tunisa | Institution of Research and Agriculture's High Education (IRESA) |
| Turkenistan | National Institute of Deserts, Flora and Fauna in Turkmenistan |
| Turkmenistan | Research Institute of Farming, Turkmenistan |
| Turkmenistan | Academy of Science Turkmenistan |
| Turkmenistan | Centre on Plant Genetic Resources of Research Institute of Farming, |
| Turkmenistan | Garrygala and the Academy of Sciences of Turkmenistan |
| Turkmenistan | Institute of Genetics and Plant Experimental Biology |
| Uganda | Action Coalition for Development (ACODE) |
| Uganda | Makarere University |
| Uganda | National Agricultural Advisory services (NAADS) |
| Uganda | National Agricultural research Organization (NARO) |
| Uganda | National Environment Management Authority (NEMA) |
| Uganda | Uganda National Council for Science and Technology |
| Uganda | Uganda Seed Traders Association |
| USA | Washington State University, Pullman WA |
| Uzbekistan | Centre of Agricultural Innovations of Farmers' Council of Uzbekistan |
| Uzbekistan | Farmers' Union in Uzbekistan, |
| Uzbekistan | Institute of Genetics and Plant Experimental Biology |
| Uzbekistan | Mamun Academy Uzbekistan |
| Uzbekistan | Ministry of Agriculture of Uzbekistan |
| Uzbekistan | National Association of Farmers |
| Uzbekistan | Private agricultural enterprise "Albatross" |
| Uzbekistan | Research Institute of Forestry in Uzbekistan |
| Uzbekistan | Samarkand State University |
| Uzbekistan | Shreder Institute of Horticulture, Viticulture and Winemaking |
| Uzbekistan | Tashkent State Agrarian University |
| Uzbekistan | Uzbek Research Institute of Forestry |
| Uzbekistan | Uzbek Research Institute of Genetics and Plant Experimental Biology |
| Uzbekistan | Uzbek Research Institute of Horticulture, Viticulture and Wine-making |
| Uzbekistan | Uzbek Research Institute of Plant Industry -- Kibray |
| Vietnam | Hanoi Agricultural University |
| Vietnam | Hue University of Agriculture and Forestry |
| Vietnam | Tay Nguyen University |
| Vietnam | Vietnam Agricultural Science Institute (VASI) |