

# Acronyms and Abbreviations

ACOD	Association Conseil pour le Développement (Mali)
ADC	Agricultural Development Corporation (Kenya)
ADP	agricultural development project (Nigeria)
AELP	Africa Emergency Locust Project
AFD	Agence Française de Développement
AfDB	African Development Bank
AfricaRice	Africa Rice Center
AFSTA	African Seed Trade Association
AGRA	Alliance for a Green Revolution in Africa
AMMS	Association Marocaine des Multiplicateurs des Semences (Morocco)
AMPROSEM	Association Malagasy pour la Promotion des Semences (Madagascar)
AMSP	Association Marocaine des Semences et Plants (Morocco)
ANPROCA	Agence Nationale de Promotion et de Conseil Agricole (Guinea)
AOPP	Association des Organisations Professionnelles Paysannes (Mali)
APEK	Association pour la Promotion Economique de Kindia (Guinea)
APEP	Agricultural Productivity Enhancement Programme (Uganda)
APiDIA	Association des Producteurs Importateurs Distributeurs d’Intrants Agricoles (Guinea)
ARI	African Rice Initiative
ASK	Agricultural Society of Kenya
ASSEMA	Association Semencière du Mali
AVRDC	World Vegetable Center
BMS	Banque Malienne de Solidarité
BNDA	Banque Nationale de Développement Agricole (Mali)
BV Lac	Projet de Protection des Bassins Versants du Lac Alaotra (Madagascar)
CABI	CAB International
CALA	Complexe Agricole du Lac Alaotra (Madagascar)
CBO	community-based organization
CCIAK	Coopérative de Commercialisation des Intrants Agricoles de Kindia (Guinea)
CFA	currency used in 14 West and Central African countries
CFC	Common Fund for Commodities
CIAT	International Center for Tropical Agriculture
CIMMYT	International Maize and Wheat Improvement Center

CIP	International Potato Center
CMDT	Compagnie Malienne de Textile (Mali)
CMS	Centre de Multiplication de Semence (Madagascar)
CONASEM	Conseil National des Semences (Madagascar)
CTAC	Comité Technique d'Admission des Variétés au Catalogue (Madagascar)
DANIDA	Danish International Development Agency
DAS	Department of Agricultural Services (The Gambia)
DFID	Department for International Development (UK)
DNA	Direction Nationale de l'Agriculture (Guinea and Mali)
DRDR	Direction Régionale de Développement Rural (Madagascar)
EAC	East African Community
ECOWAS	Economic Community of West African States
ELISA	enzyme-linked immunosorbent assay
EPIC	établissement public à caractère industriel et commercial
EU	European Union
FAO	Food and Agriculture Organization of the United Nations
FCFA	Franc Communauté Financière Africaine
FFS	farmer field school
FICA	Farm Inputs Care Centre (Uganda)
FIFAMANOR	Centre for rural development and applied research (Madagascar)
FIOVA	Association of enterprises of the Vakinankaratra region (Madagascar)
FOFIFA	Centre National de Recherche Appliquée au Développement Rural (Madagascar)
Gamcell	Gambia Telecommunications Cellular Company Ltd
GASTA	Gambia Agrochemicals and Seed Trade Association
GDP	gross domestic product
GIC	groupement d'initiatives communes (Cameroon)
GNF	Guinean franc
GPS	Groupement de Paysans Semenciers
GRTS	Gambia Radio and Television Services (The Gambia)
GTZ	Deutsche Gesellschaft für Technische Zusammenarbeit (Germany)
HYV	high-yielding varieties
ICIPE	African Insect Science for Food and Health
ICRISAT	International Crops Research Institute for the Semi-Arid Tropics
IDEA	Investment in Developing Export Agriculture (Uganda)
IER	Institut d'Economie Rurale (Mali)
IFAD	International Fund for Agricultural Development
IFDC	International Centre for Soil Fertility and Agricultural Development
IITA	International Institute of Tropical Agriculture
IMF	International Monetary Fund
INCOFIN	Belgian investor in micro-finance
INRA	Institut National de la Recherche Agronomique (Morocco)
IPM	integrated pest management
IRAD	Institute of Agricultural Research for Development (Cameroon)
IRAG	Institut de Recherche Agronomique de Guinée (Guinea)

IRRI	International Rice Research Institute
ISTA	International Seed Testing Association
IWMF	International Women's Media Foundation
KARI	Kenya Agricultural Research Institute
KEPHIS	Kenya Plant Health Inspectorate Service
KSh	Kenyan shilling
LABOSEM	Laboratoire de Semences (Mali)
MARKETS	USAID-funded project linking farmers to markets (Nigeria)
MEADEN	Mission d'Études pour l'Aménagement et le Développement de la Province du Nord (Cameroon)
MUDIFESOF	Mumias District Federation of Soybean Farmers (Kenya)
NAADS	National Agricultural Advisory Services (Uganda)
NARI	National Agricultural Research Institute (The Gambia)
NARO	National Agricultural Research Organization (Uganda)
NASC	National Agricultural Seed Council (Nigeria)
NASECO	Nalweyo Seed Company (Uganda)
NAERLS	National Agricultural Extension and Research Liaison Service (Nigeria)
Nerica	New Rice for Africa
NGO	non-governmental organization
NSCS	National Seed Certification Service (Uganda)
OAPI	African Intellectual Property Organization
OECD	Organisation for Economic Co-operation and Development
OPSS	Opération Production Semences Sélectionnées (Mali)
OPV	open-pollinated variety
ORTM	Office de Radiodiffusion – Télévision du Mali
OSRO	FAO's Office of Special Relief Operations
PAFISEM	Projet d'appui à la filière semencière (Mali)
PBAK	Plant Breeders Association of Kenya
PSDR	Projet de Soutien au Développement Rural (Madagascar)
PVS	participatory varietal selection
QDS	quality declared seed
RIFAN	Rice Farmers Association of Nigeria
RNM	Radio National Malagasy
SACCO	saving and credit cooperative (Uganda)
SCAA	Société Commerciale et Agricole d'Ambohimangakely (Madagascar)
SCSP	Service de Contrôle de Semences et Plants (Morocco)
SEEDAN	Seed Association of Nigeria
SEMRY	Société d'Expansion et de Modernisation de la Riziculture de Yagoua (Cameroon)
SG2000	Sasakawa Global 2000
SMV	Service des Semences et Matériel Végétal (Madagascar)
SNPRV	Service National de la Promotion Rurale et de la Vulgarisation (Guinea)
SOC	Service Officiel de Contrôle des Semences (Madagascar)
SOGETA	Société de Gestion des Terres Agricoles (Morocco)
SONACOS	Société Nationale de Commercialisation de Semences (Morocco)

SRI	system of rice intensification
STAK	Seed Trade Association of Kenya
TLS	truthfully labelled seed
TRIAS	Belgian NGO (merger between ACT, Ieder voor Allen and Form)
TV	television
UCSCU	Uganda Cooperative Savings and Credit Union
UNADA	Uganda National Agro-input Dealers Association
UNDP	United Nations Development Programme
UPOV	Union for the Protection of New Varieties of Plants
USAID	US Agency for International Development
USDA	US Department of Agriculture
USTA	Uganda Seed Trade Association
VAT	value added tax
VKMMV	Union of seed producer cooperatives in Vakinankaratra (Madagascar)
VSO	Voluntary Service Overseas
WASA	West Africa Seed Alliance
WFP	World Food Programme
ZARDI	Zonal Agricultural Research and Development Institute (Uganda)

# Glossary of Terms

breeder seed	Seed that is produced by plant breeders in small quantities for multiplication to reach the desired volumes for sale to companies or outgrowers
certified seed	Seed that has been verified to be varietally pure, clean and viable (high germination rate)
cross-pollinating species	A plant species that exchanges genetic material in the form of pollen from one plant to another (as opposed to self-pollinating species). Examples of cross-pollinated crops are maize, pearl millet, sunflower, lucerne and forage grasses
fonio	One of the world's fastest growing cereals, reaching maturity in as little as 6 to 8 weeks. It is a nutritious crop that grows in semi-arid areas with poor soils, where rains are brief and unreliable. The grains are used in porridge and couscous, for bread and for beer
formal seed sector	The regulated chain of seed production and marketing involving scientific plant breeding, multiplication following established procedures, processing, bagging, labelling and marketing
foundation seed	Seed produced by a research centre, a company or out-growers that is one generation after breeder seed but will be multiplied again before being sold to farmers
gombo	Okra. A traditional food plant in Africa, from the hibiscus family, that is valued for its edible green fruits. When the seed pods are cooked, they result in a characteristic 'goo' or slime
hybrid seed	Seed produced by crossing two or more separate inbred lines. Hybrid seed typically produces high yields the first year, but the yield drops if recycled for a second year. The percentage yield loss that occurs in recycling depends on the type of hybrid and the growing environment
informal seed sector	The chain of seed production and marketing involving farmers who save seed from harvest to planting, occasionally selling or exchanging seed with other farmers, but without any official testing
open-pollinated variety	A crop variety that can pollinate and reproduce naturally (through either self- or cross-pollination) and whose seed can be saved and reused over various seasons, as opposed to hybrid seed

seed system	The set of interconnected institutions involved in developing, producing, testing and marketing seed. It involves both the formal and informal sector
self-pollinating species	A plant species in which the majority of pollination occurs within the same plant (as opposed to cross-pollinating species). Examples of self-pollinating species are wheat, rice, chickpeas and groundnuts. Sorghum, cowpea, beans and pigeon pea are predominantly self-pollinating
standard seed	A category of seed in some seed quality control schemes which may be tested but is not subject to full certification procedures
truthfully labelled seed	A category of seed that is not certified, but is labelled according to the characteristics and origin of the seed
varietal release	A procedure by which a committee reviews the results of field trials and decides whether a new variety can be named and made available for sale to farmers
vegetatively propagated species	A species that does not produce viable seed, but instead reproduction occurs by using part of an existing plant. Examples of vegetatively propagated species include cassava, sweet potato, potato and bananas. Cassava and sweet potato are propagated by using portions of the stem, potato by using tubers and banana by cutting and replanting ‘suckers’ (small shoots) from the banana plant
ware potatoes	Potatoes to eat
yam	Perennial herbaceous vine that yields large, edible starchy tubers

# Index

- Agreienas seed producers group 34–35  
agricultural development projects  
    (ADPs) 45–50, 63  
aid programmes 16, 21, 27–28, 29–30,  
    44, 51, 95–96, 98–99, 150, 160,  
    168–169, 171, 183, 186, 190, 193,  
    200, 201, 220–221, 222  
Andri-Ko 196–200  
Aoudi Sanguéré federation 30–31
- Bakusekamajja Women Farmers’  
    Development Association 168–173  
barley 206–207  
bean 173–175, 187–188, 213  
Brazil 4
- Cameroon 25–26  
    Agreienas seed producers  
        group 34–35  
    aid programmes 27–28, 29–30  
    Aoudi Sanguéré federation 30–31  
    certification 26–27, 30  
    development 27–30  
    infrastructure 27  
    marketing 31, 33, 35  
    Sayem seed producers union 32–33  
    seed enterprises 28–30, 35–36, 210  
    seed production 26, 30, 32–33, 34  
cash flow 6  
    Cameroon 31, 33  
    Guinea 94–95, 97–98, 100,  
        103–104, 106  
    Kenya 147–148, 151, 153  
    Madagascar 189, 192, 196, 199–200,  
        204, 207  
    Mali 67–68, 73, 77, 79, 81, 85  
    Morocco 140  
    Nigeria 43–44, 49, 52–53, 54, 55, 56, 58  
    The Gambia 117, 122, 127  
    Uganda 160–161, 165–166, 171–172,  
        176, 179  
cereal and potato seed producers  
    union 101–104  
certification 2, 13–14, 26–27, 30, 48–49,  
    67, 72–73, 92, 135–136, 137, 140,  
    143, 144–145, 157, 184–185,  
    195–196, 199, 208, 218, 219  
Comptoir Agricole 98–101  
Coprosem 80–82  
Côte d’Ivoire 4
- development programmes 16, 21, 27–28,  
    29–30, 44, 51, 95–96, 98–99, 150,  
    160, 168–169, 171, 183, 186, 190,  
    193, 200, 201, 220–221, 222  
disease 13, 152, 157, 173, 203, 206  
    *Magnaporthe grisea* 32
- El-Hadj Tafsir Sow 104–106
- farm-saved seed 3, 12  
farmer seed enterprises 20–21, 28–30,  
    78–79, 80–82, 101–104, 118–125,  
    173–177, 214  
    structure 29, 80–81, 175  
    support 21  
farmer to farmer 12, 47, 48  
Faso Kaba 70–75  
FIFAMANOR 201–207  
finance 18–19, 29–30, 43, 134, 179, 218, 222  
    cash flow 6  
        Cameroon 31, 33, 35–36  
        Guinea 94–95, 97–98, 100,  
            103–104, 106  
        Kenya 147–148, 151, 153

- finance (*continued*)
- Madagascar 189, 192, 196, 199–200, 204, 207
  - Mali 67–68, 73, 77, 79, 81, 85
  - Morocco 140
  - Nigeria 43–44, 49, 52–53, 54, 55, 56, 58
  - The Gambia 117, 122, 127
  - Uganda 160–161, 165–166, 171–172, 176, 179
- food production 3, 25–26
- foundation seed 43–44, 62–63, 80, 111–112, 120, 125, 157, 161–162, 183, 191–192, 202, 206
- Gambia *See* The Gambia
- Gambia Horticultural Enterprises 115–118
- government 221
- policy 41–42, 46, 66–67, 68–69, 87, 92, 111–112, 134, 138–139, 143–145, 159–160, 182, 184–185, 186, 191, 201
  - programmes 2–3, 13, 16, 39–41, 45–50, 90, 92, 190, 201–205
- Guinea 89–90
- aid programmes 95–96, 98–99
  - cereal and potato seed producers union 101–104
  - certification
    - Comptoir Agricole 98–101
    - development 98–100, 101–102, 104–105
    - El-Hadj Tafsir Sow 104–106
    - export 92–95
    - finance 94–95, 97–98, 100, 103–104, 106
    - Ibrahima Sherif 95–98
    - infrastructure 90, 97, 103
    - Mama Adama Yansané 92–95
    - marketing 95, 98, 100–101, 104, 106
    - policy 92
    - seed enterprises 106–108, 211
    - seed production 90–91, 102–103
    - varieties 91, 105
- hybrid maize 11, 30–31, 34, 50, 54, 145, 146, 158, 213
- Ibrahima Sherif 95–98
- India 4
- infrastructure 218
- Cameroon 27
  - Guinea 90, 97, 103
  - Kenya 147, 150, 153
  - Madagascar 189, 191, 195, 199, 201, 203, 206
  - Mali 66, 72, 76, 79
  - Morocco 134, 139, 140
  - Nigeria 38, 46, 50–51, 58, 61
  - The Gambia 116, 121, 126
  - Uganda 158–159, 164–165, 171, 175–176
- International seed testing association (ISTA) 69, 136, 144–145, 160, 185
- Jafaye Farm 125–129
- Jambur Kafo 118–124
- Kenya 142–143
- aid programmes 150
  - certification 143, 144–145
  - development 143, 145–146, 149, 151–152
  - export 145
  - finance 147–148, 151, 153
  - infrastructure 147, 150, 153
  - Kenya plant health inspection service (KEPHIS) 143–144
  - marketing 149, 151, 153–154
  - Mumias District Federation (MUDIFESOF) 149–151
  - policy 143–145
  - seed enterprises 154–155, 212
  - seed production 143
  - Sungus Seed Potato Enterprise 151–154
  - training 150, 152
  - varieties 148, 152
  - Western Seed Company 145–149
- Madagascar 181
- aid programmes 183, 186, 190, 193, 200, 201
  - Andri-Ko 196–200
  - certification 184–185, 195–196, 199, 208
  - development 187–188, 190, 194–195, 196–198, 205–206
  - FIFAMANOR 201–207

- finance 189, 192, 196, 199–200, 204, 207
- infrastructure 189, 191, 195, 199, 201, 203, 206
- marketing 189–190, 192–193, 196, 200, 204–205, 207–208
- Meva Seed Potato Growers' Cooperative 205–208
- policy 182, 184–185, 186, 191, 201
- SCAA 194–196
- seed enterprises 208–209, 212
- Seed Multiplication Centre (CMS) 190–193
- seed production 182–184, 185–186
- training 189
- Valy Prod Sem 187–190
- varieties 188, 190, 197–198, 201, 205–206
- Magnaporthe grisea* 32
- maize 11, 30–31, 34, 50, 54, 145, 146, 158, 213
- Mali 65–66, 86–87
  - certification 67
  - Coprosem 80–82
  - development 66–67, 70–71, 75, 86–87, 95–96
  - Dogon country villages 82–86
  - Faso Kaba 70–75
  - finance 67–68, 73, 77, 79, 81, 85
  - infrastructure 66, 72, 76, 79
  - marketing 73–75, 77–78, 79, 81–82, 85–86
  - millet 82–83
  - Niégué farm 75–78
  - Nipagnon Cooperative 78–79
  - policy 66–67, 68–69
  - seed enterprises 86–87, 211
  - varieties 69–70, 80
- marketing 6, 219–220
  - Cameroon 31, 33, 35
  - Guinea 95, 98, 100–101, 104, 106
  - Kenya 149, 151, 153–154
  - Madagascar 189–190, 192–193, 196, 200, 204–205, 207–208
  - Mali 73–75, 77–78, 79, 81–82, 85–86
  - Morocco 137–138, 141
  - Nigeria 49–50, 53, 55, 59
  - The Gambia 113–115, 117–118, 123, 127–129, 131
  - Uganda 166–168, 172–173, 176–177
- markets 12–13, 17–18
- Maslaha Seeds 60–62
- Meva Seed Potato Growers' Cooperative 205–208
- millet 66, 69, 82–83, 213
- Morocco 133–134
  - certification 135–136, 137, 140
  - development 138–139
  - finance 134, 140
  - infrastructure 134, 139, 140
  - marketing 137–138, 141
  - national seed plan 138
  - policy 134, 138–139
  - seed enterprises 211–212
  - seed production 135–138, 141
  - SONACOS 138–141
  - varieties 136, 139
- Mumias District Federation (MUDIFESOF) 149–151
- Nagari Seed 53–55
- Nalweyo Seed Company (NASECO) 161–168
- Niégué farm 75–78
- Nigeria 38, 62–64
  - agricultural development projects (ADPs) 45–50, 63
  - aid programmes 44, 51
  - certification 42
  - development 45–46
  - export 43
  - finance 43–44, 49, 52–53, 54, 55, 56, 58
  - infrastructure 38, 46, 50–51, 58, 61
  - marketing 49–50, 53, 55, 59
  - Maslaha Seeds 60–62
  - Nagari Seed 53–55
  - policy 41–42, 46
  - Premier Seeds 50–53
  - seed enterprises 39–41, 62–64, 210
  - seed production 42–43, 47, 48, 54, 90–91
  - Share Foundation 43–44
  - Terratiga 55–56
  - The Seed Company Project 57–59
  - training 59
- Nipagnon Cooperative 78–79
- Nyamabale Bean Seed Producers Association 173–177
- pearl millet 66, 69, 82–83, 213
- plant breeder's rights 14–16, 42, 52, 136, 159

- potato 13, 145, 205–206, 213
- poverty 9
- Premier Seeds 50–53
- production systems 8–9, 26, 30, 32–33, 34, 42–43, 90–91, 102–103, 118–120, 135–138, 141, 143, 157–158, 163–164, 182–184, 185–186, 212–213
- development 27–30
- profit margin 1
- See also* profit margin
- quality 2, 8–9, 13–14, 48–49, 52, 59, 61, 76, 84–85, 94, 97, 103, 117, 122, 125, 126–127, 162, 165, 176, 184–185, 192, 195–196, 199, 203–204
- seed testing 52, 68–69, 144–145, 160, 165, 184–185, 204
- rice 27–30, 32–33, 34, 43–44, 75, 89–90, 91, 93, 96, 111–113, 119, 197–198, 213
- Sayem seed producers union 32–33
- SCAA 194–196
- seed 1
- certification 2, 13–14, 26–27, 30, 48–49, 67, 72–73, 92, 135–136, 137, 140, 143, 144–145, 157, 184–185, 195–196, 199, 208, 218, 219
- cost 11, 146
- demand 9–11, 43, 145
- exports 43
- farm-saved 3, 12
- foundation seed 43–44, 62–63, 80, 111–112, 120, 125, 157, 161–162, 183, 191–192, 202, 206
- production systems 8–9, 26, 30, 32–33, 34, 42–43, 90–91, 102–103, 118–120, 135–138, 141, 143, 157–158, 163–164, 182–184, 185–186, 212–213
- quality 2, 8–9, 13–14, 48–49, 52, 59, 63, 76, 84–85, 94, 97, 103, 117, 122, 125, 126–127, 162, 165, 176, 184–185, 192, 195–196, 199, 203–204
- supply 12–16
- barriers 20
- farm-saved 3, 12
- farmer to farmer 12, 47, 48
- local markets 12–13
- retailers 13
- testing 52, 68–69, 144–145, 160, 165, 184–185, 204
- seed enterprises 1, 4–5, 14, 35–36, 210, 213–220, 222–224
- Cameroon 201
- Agreienas seed producers group 34–35
- Aoudi Sanguéré federation 30–31
- Sayem seed producers union 32–33
- development 2–4, 16, 19, 27–30
- farmer groups 20–21, 28–30, 78–79, 80–82, 214–215
- Dogon country villages 82–86
- cereal and potato seed producers union 101–104
- Jambur Kafo 118–125
- Mumias District Federation (MUDIFESOF) 149–151
- Nyamabale Bean Seed Producers Association 173–177
- farmer seed enterprises 20–21, 28–30, 78–79, 80–82, 101–104, 118–125, 173–177, 214
- finance 18–19, 29–30, 43, 134, 179, 218, 222
- See also* cash flow
- government 39–41, 45–50, 201–205, 217–218
- Guinea 211
- cereal and potato seed producers union 101–104
- Comptoir Agricole 98–101
- El-Hadj Tafsir Sow 104–106
- Ibrahima Sherif 95–98
- Mama Adama Yansané 92–95
- Kenya 212
- Mumias District Federation (MUDIFESOF) 149–151
- Sungus Seed Potato Enterprise 151–154
- Western Seed Company 145–149

- Madagascar 212  
 Andri-Ko 196–200  
 FIFAMANOR 201–207  
 Meva Seed Potato Growers' Cooperative 205–208  
 SCAA 194–196  
 Seed Multiplication Centre (CMS) 190–193  
 Valy Prod Sem 187–190
- Mali 69–70, 211  
 Coprosem 80–82  
 Faso Kaba 70–75  
 Niégué farm 75–78  
 Nipagnon Cooperative 78–79
- marketing 6, 219–220  
 Cameroon 31, 33, 35  
 Guinea 95, 98, 100–101, 104, 106  
 Kenya 149, 151, 153–154  
 Madagascar 189–190, 192–193, 196, 200, 204–205, 207–208  
 Mali 73–75, 77–78, 79, 81–82, 85–86  
 Morocco 137–138, 141  
 Nigeria 49–50, 53, 55, 59  
 The Gambia 113–115, 117–118, 123, 127–129, 131  
 Uganda 166–168, 172–173, 176–177
- Morocco 138–141
- Nigeria 62–64, 210  
 agricultural development projects (ADPs) 45–50  
 Maslaha Seeds 60–62  
 Nagari Seed 53–55  
 Premier Seeds 50–53  
 Share Foundation 43–44  
 Terratiga 55–56  
 The Seed Company Project 57–59
- The Gambia 211–212  
 Gambia Horticultural Enterprises 115–118  
 Jafaye Farm 125–129  
 Jambur Kafo 118–124
- Uganda 212  
 Bakusekamajja Women Farmers Association 168–173  
 Nalweyo Seed Company (NASECO) 161–168  
 Nyamabale Bean Seed Producers Association 173–177
- Seed Multiplication Centre (CMS) 190–193  
 Share Foundation 43–44  
 sorghum 56, 66, 69, 80, 213  
 soybean 149, 213  
 Sungus Seed Potato Enterprise 151–154
- supply 12–16  
 barriers 20  
 farm-saved 3, 12  
 farmer to farmer 12, 47, 48  
 local markets 12–13  
 retailers 13
- support programmes 16, 21, 27–28, 29–30, 44, 51, 95–96, 98–99, 150, 160, 168–169, 171, 183, 186, 190, 193, 200, 201, 220–221, 222
- sweet potato 202–203
- Terratiga 55–56
- The Gambia 109–110  
 development 110, 113–115, 118–120, 125  
 finance 117, 122, 127  
 Gambia Horticultural Enterprises 115–118  
 infrastructure 116, 121, 126  
 Jafaye Farm 125–129  
 Jambur Kafo 118–124  
 marketing 113–115, 117–118, 123–124, 131  
 policy 111–112  
 seed enterprises 129–131, 211  
 seed production 118–120  
 training 125  
 varieties 111–113
- The Seed Company Project 57–59
- training  
 Kenya 150, 152  
 Madagascar 189  
 Nigeria 59  
 The Gambia 125  
 Uganda 169, 171, 173, 176
- Uganda 156–157  
 agronomy 169  
 aid programmes 160, 168–169, 171  
 Bakusekamajja Women Farmers Association 168–173  
 certification 157  
 development 158–159, 160–162, 168–170, 173–175

- Uganda (*continued*)  
  finance 160–161, 165–166, 171–172,  
    176, 179  
  infrastructure 158–159, 164–165,  
    171, 175–176  
  marketing 166–168, 172–173, 176–177  
  Nalweyo Seed Company  
    (NASECO) 161–168, 178  
  Nyamabale Bean Seed Producers  
    Association 173–177  
  policy 159–160  
  seed enterprises 177–179, 212  
  seed production 157–158, 163–164  
  training 169, 171, 173, 176  
  varieties 157, 159, 168, 173, 178  
UPOV 15, 136
- Valy Prod Sem 187–190  
varieties 148, 152  
  access to 3, 11, 14, 20  
  development 50, 69, 91, 136,  
    157, 168, 178, 185–186,  
    221–222  
  introduction 42, 80, 93, 96, 111–113,  
    118–119, 139, 161–162,  
    173–174, 188, 190,  
    197–198, 201  
  protection *See* plant breeders rights  
vegetables 98–99
- war 92–93  
Western Seed Company 145–149

# AFRICAN SEED ENTERPRISES

## Sowing the Seeds of Food Security

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In most developing countries, good quality seed is hard to obtain and farmers struggle to save seed from one year to the next. Instead, they increasingly turn to public or private enterprises that multiply, store and distribute seed. *African Seed Enterprises* takes a people-centred look at the companies, public agencies and family farms that are taking on this role and making a difference to food security across Africa. Case studies are arranged by country, and each chapter includes a profile of the agricultural and policy environment that surrounds the enterprises and influences their development.

Each case study is substantially unique and presents its own set of lessons, and, as a whole, the wide range of experiences is a rich source of data and ideas for understanding seed systems and developing future enterprises. This book offers valuable insights for academics, policy makers, entrepreneurs and non-governmental organizations throughout the world.

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