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# INFORMATION PAPER

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## INFORMATION BRIEF ON CCARDESA PROJECTS 2013 - 2024

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## 1. Background

This paper presents a matrix of projects and countries that have benefitted and are still benefitting from projects implemented by CCARDESA from 2013 up to 2024. CCARDESA has been given a regional mandate by SADC Member States to coordinate regional cooperation on agricultural research and development. Therefore, most of the projects it has implemented or facilitated entail entities in two or more countries involved in collaborative work to tackle identified issues of common interest in alignment to the regional policies development goals. The projects that are on-going are shaded in the Table 1 below.

**Table 1: List of projects coordinated by CCARDESA from January 2013 up to June 2024**

No.	Project Name	Start Date	End Date	Source of Funding	Remarks
1.	Agriculture market information and early warning system	Jan 2015	Dec 2017	EU5 (MDTF1)	
2.	Conservation agriculture and development of smart sprayer for smallholder farmers	Jan 2015	Dec 2017	EU5 (MDTF1)	
3.	Development of a solar dryer for small scale mopane worm harvesters in Southern Africa	Jan 2015	Dec 2017	EU5 (MDTF1)	
4.	Promotion of ecosystem responsive integrated urban farming practices in the livestock, vegetable and fish production systems	Jan 2015	Dec 2017	EU5 (MDTF1)	
5.	Improving village chicken productivity to increase income and food security in Tanzania and Mozambique	Jan 2015	Dec 2017	EU5 (MDTF1)	
6.	Enhancing capacities for milk collection and processing in the agro-pastoral and peri-urban farming systems for improved Livelihoods	Jan 2015	Dec 2017	EU5 (MDTF1)	
7.	Efficacy and delivery methods of novel combined vaccines against respiratory poultry diseases in Tanzania and Zambia	Jan 2015	Dec 2017	EU5 (MDTF1)	
8.	Sub-Saharan Africa Challenge Programme (SSA-CP)	2004**	Dec 2015	FARA <sup>2</sup>	
9.	Promotion of Science and Technology for Agricultural Development (PSTAD)	2008**	Mar 2015	AfDB <sup>2</sup>	FARA <sup>11</sup> -led
10.	Universities, Research and Business (UniBRAIN)	Jan 2010**	Dec 2015	DANIDA 11	FARA-led
11.	Promotion and dissemination of fruit juice extraction in Malawi, Mozambique and	July 2014	June 2015	USAID <sup>3</sup>	

No.	Project Name	Start Date	End Date	Source of Funding	Remarks
	Zambia				
12.	Dissemination of improved beans and pigeon peas varieties for increased productivity and production in Zambia and Malawi	July 2014	June 2015	USAID <sup>3</sup>	
13.	Women and youth agribusiness programmes: Cassava and beekeeping	Jan 2015	Dec 2015	MDTF <sup>1</sup> /EU <sup>5</sup>	
14.	Empowerment of farmers and market access: Glen valley project	Feb 2015	Dec 2015	USAID <sup>3</sup> / MDTF <sup>1</sup>	
15.	Inventory of underutilised crops in the SADC region	Jan 2014	Dec 2015	CFFRC <sup>4</sup> / CCARD ESA	
16.	Strengthening the Capacity of African Countries to Conservation and Sustainable Utilization of African Animal Genetic Resources	June 2014	Dec 2015	EU <sup>5</sup>	AU-IBAR <sup>7</sup> -led
17.	Africa human capital in science, technology & agripreneurship for food security framework (AHC- STAFF)	Jan 2015	June 2016	EU <sup>5</sup>	FARA <sup>5</sup> -led
18.	IFPRI- Virtual Information Platform	Apr 2016	Mar 2017	IFAD <sup>10</sup>	IFPRI <sup>12</sup>
19.	Towards a long term Africa-EU partnership to raise sustainable food and nutrition security in Africa: (Pathways to sustainable intensification of the agri-food system in Africa) - PROIntensAfrica	Jan 2015	Dec 2017	EU <sup>5</sup>	WUR <sup>11</sup> -led
20.	Enhancing Smallholder Wheat Productivity through Sustainable Intensification in Wheat based Farming Systems of Rwanda and Zambia” (SWPSI)- Wheat for Africa	July 2016	Oct 2020	IFAD <sup>8</sup>	CIMMYT <sup>13</sup> -led
21.	SADC adaptation to climate change in rural areas in Southern Africa, transregional (ACCRA)	Apr 2015	Dec 2020	BMZ <sup>6</sup>	GIZ <sup>10</sup> - implemented
22.	Agricultural Productivity Program for Southern Africa (APPSA) <sup>***</sup> Phase 1	2013	Dec 2019	World Bank	See Annex 1 for 77 APPSA sub-projects
23	Mitigating the impact of COVID-19 on food and nutrition security using Climate Smart Technologies	Nov 2020	April 2022	EU <sup>5</sup>	SADC-led GCCA+ Initiative

No.	Project Name	Start Date	End Date	Source of Funding	Remarks
24	Harnessing Climate Smart Agriculture (CSA) Practices to Reduce the Impacts of Climate Change in Southern Africa (Global Climate Change Alliance Plus-GCCA+)	June, 2021	June 2023	EU5	SADC-led Initiative
25	Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA)	2021	2023	World Bank	ILRI - led
26	Climate-resilient Natural Resources Management (C-NRM) Project	2022	2023	GIZ	GIZ - led
27	The Growing Greener Project	2023	2029	BMUV	
28	Agricultural Productivity Program for Southern Africa (APPSA) *** Phase 2	2019	Jan 2025	World Bank	See Annex 2 for 43 APPSA sub-projects
29	Comprehensive Africa Agriculture Development Programme CAADP Ex-pillar IV Africa Regional and Sub-regional Organizations for Agricultural Research and Innovation Project (CAAPDP-XP4)	Feb 2019	2024	EU5/IFA D10	IFAD - led
30	Food Systems Resilience Programme (FSRP)	2023	2029	World Bank	
31	Agroecology				
32	UKAMA USTAWI	2023	2024	EU, World Bank	CGIAR

1 = Multi Donor Trust Fund; 2 = African Development Bank; 3 = United States Aid for International Development; 4 = Crops For the Future Research Centre; 5 = European Union; 6 = The Federal Ministry for Economic Cooperation and Development (BMZ); 7 = African Union Inter- African Bureau for Animal Resources; 8 = International Fund for Agricultural Development; 9 = Forum for Agricultural Research in Africa; 10 = Deutsche Gesellschaft für Internationale Zusammenarbeit; 11 = Wageningen University & Research; 12 = International Food Policy Research Institute; 13 = International Centre for Wheat and Maize Improvement.

\*\*Projects inherited from the SADC Secretariat

\*\*\* Total of 77 sub –projects were implemented in APPSA target countries (Malawi, Mozambique and Zambia). APPSA Phase 1 ended in 2019 but APPSA for Lesotho and Angola started in 2019/2020.

\*\*\* Total of 43 sub –projects are being implemented in APPSA target countries (Angola and Lesotho).  
BMUV = German Federal Ministry for Environment, Nature Conservation, Nuclear Safety and Consumer Protection

**Table 2 Matrix of countries and Projects that CCARDESA implemented from 2013 to 2024**

No	Country* ->	ANG	BOT	COM	DRC	ESW	LES	MAD	MAL	MAU	MOZ	NAM	SEY	RSA	TAN	ZAM	ZIM
	Project																
1	Agriculture market information and early warning system																
2	Conservation agriculture and development of smart sprayer for smallholder farmers																
3	Development of a solar dryer for small scale mopane worm harvesters in Southern Africa																
4	Promotion of ecosystem- responsive integrated urban farming practices in the livestock, vegetable and fish production systems																
5	Improving village chicken productivity to increase income and food security in Tanzania and Mozambique																
6	Enhancing capacities for milk collection and processing in the agro- pastoral and peri-urban farming systems for improved livelihoods																
7	Efficacy and delivery methods of novel combined vaccines against respiratory poultry diseases in Tanzania and Zambia																
8	Sub-Sahara Africa Challenge Programme (SSA CP)																
9	Promotion of Science and Technology for Agricultural Development (PSTAD)																
10	Universities, Research and Business (UniBRAIN)																
11	Promotion and dissemination of fruit juice extraction in Malawi, Mozambique and Zambia																
12	Dissemination of improved beans and pigeon peas varieties for increased productivity and production in Zambia and Malawi																
13	Women and youth agribusiness programmes: Cassava and beekeeping																
14	Empowerment of farmers and market access: Glen valley project																
15	Inventory of underutilised crops in the SADC region																
16	Strengthening the Capacity of African Countries to Conservation and Sustainable Utilization of African Animal Genetic Resources																

No	Country* ->	ANG	BOT	COM	DRC	ESW	LES	MAD	MAL	MAU	MOZ	NAM	SEY	RSA	TAN	ZAM	ZIM
	Project																
17	Africa human capital in science, technology & agripreneurship for food security framework (AHC- STAFF)																
18	IFPRI- Virtual Information Platform																
19	Enhancing Smallholder Wheat Productivity through Sustainable Intensification in Wheat based Farming Systems of Rwanda and Zambia” (SWPSI).																
20	Mitigating the impact of COVID-19 on food and nutrition security using Climate Smart Technologies																
21	Climate-resilient Natural Resources Management (C-NRM) Project																
22	SADC adaptation to climate change in rural areas in Southern Africa, transregional (ACCRA)																
23	Agricultural Productivity Program for Southern Africa (APPSA 1)																
24	Harnessing Climate Smart Agriculture (CSA) Practices to Reduce the Impacts of Climate Change in Southern Africa (GCCA+)																
25	Growing Greener																
26	Accelerating Impacts of CGIAR Climate Research for Africa (AICCRA)																
27	Agricultural Productivity Program for Southern Africa (APPSA 2)																
28	Comprehensive Africa Agriculture Development Programme CAADP Ex-pillar IV Africa Regional and Sub- regional Organizations for Agricultural Research and Innovation Project (CAADP- XP4).																
30	Food systems Resilience Programme (FSRP)																
31	Agroecology																
32	UKAMA USTAWI																

## **2. Observations on the coverage of projects**

CCARDESA has had a total of about 31 projects or initiatives implemented during the period under review (Table 1). Most of the projects were implemented within three years. The longest programme is APPSA which came in two Phases of six years each. The first phase (2013-2019) was implemented in Malawi, Mozambique and Zambia. The second phase (2019-2025) focuses its implementation in Angola and Lesotho. The first phase of APPSA had 77 sub-projects implemented by the three (3) target countries (Annex 1) while the second phase is implementing 43 sub-projects.

The beneficiary countries for most of the implemented projects have been determined, to a large extent, by the donors' own priority countries. The donors' criteria have tended to lean significantly towards the least developed countries in the region. CCARDESA therefore has had no power in changing the priority geographical areas of project implementation. There are also other factors, beyond CCARDESA, that have also influenced the involvement of countries in some projects. The APPSA Project, for example, is based on the willingness of a country to take a loan from the World Bank to finance its agricultural productivity projects.

Almost all the countries except the Comoros which recently joined the Southern Africa Development Community, have benefitted from at least one CCARDESA implemented project or initiatives. The Lusophone and Francophone countries have generally participated less in the CCARDESA projects. This is partly attributed to implementation arrangements where donors or continental project coordinating entities often conveniently group Francophone countries with either their Central or Eastern Africa counterparts to overcome language constraints.

## ANNEX 1.: APPSA Sub-projects per Commodity under each Regional Centre of Leadership (Phase 1)

### Cycle 1 (2013) Projects

PROJECT CODE	PROJECT TITLE	LEAD COUNTRY
MAIZE		
MZ-P01-2013	Improving nutritional quality in maize in Mozambique, Zambia and Malawi.	Mozambique
MZ-P02-2013	Disseminating improved maize varieties and agronomic practices among smallholder farmers.	Zambia
MZ-P03-2013	Development and improvement of inbred lines tolerant to major storage pests.	Zambia
MZ-P04-2013	Improvement of integrated maize / dairy production systems.	Malawi
MZ-P05-2013	Improvement of post-harvest management practices in maize.	Malawi
MZ-P06-2013	Development of maize varieties resistant to major diseases in Mozambique, Malawi and Zambia.	Mozambique
MZ-P07-2013	Screening and promotion of <i>Striga</i> tolerant maize varieties in Malawi, Mozambique and Zambia.	Malawi
MZ-P08-2013	Maize germplasm collection and characterisation for climate change adaptation.	Malawi
MZ-P09-2013	Improving water use efficiency in maize production.	Malawi
RICE		
RC-P01-2013	Rice germplasm collection and characterisation.	Mozambique
RC-P02-2013	Development of improved rice varieties.	Mozambique
RC-P03-2013	Enhancing productivity of improved rice varieties through the development of integrated crop management practices.	Mozambique
RC-P04-2013	Promotion and dissemination of improved rice technologies for sustainable production.	Mozambique
RC-P05-2013	Strengthening rice seed delivery system for enhanced production among smallholder farmers.	Zambia
LEGUMES		
LG-P01-2013	Improving bean productivity in low soil fertility and drought prone areas.	Mozambique
LG-P02-2013	Developing bean varieties for high Fe and Zn with resistance to ALS and CBB.	Zambia
LG-P03-2013	Adaptation and promotion of bruchid resistant bean varieties in Malawi, Mozambique, and Zambia.	Malawi
LG-P04-2013	Improving groundnut productivity in low soil fertility and drought prone areas of Mozambique, Malawi and Zambia.	Mozambique
LG-P05-2013	Breeding groundnut Varieties for multiple disease resistance, for quality and food market access in Mozambique and Zambia.	Zambia
LG-P06-2013	Strengthening food legume seed delivery systems in Malawi, Mozambique, and Zambia.	Zambia
LG-P07-2013	Up-scaling improved soybean production and utilisation for enhanced nutrition and income generation.	Zambia



PROJECT CODE	PROJECT TITLE	LEAD COUNTRY
LG-P08-2013	Developing high yielding soybean varieties that are resistant to major diseases and with preferred market traits.	Zambia
LG-P09-2013	Developing high yielding varieties and sustainable management practices for improved cowpea production.	Zambia
LG-P10-2013	Development and promotion of improved pigeon pea varieties for increased and sustainable production.	Malawi
LG-P11-2013	Enhancing dissemination of food legume based technologies for increased production.	Zambia
<b>SORGHUM</b>		
SG-P01-2013	Promoting the adoption of improved management practices for increased Sorghum production in Zambia.	Zambia

### Cycle 2 (2014)

PROJECT CODE	PROJECT TITLE	LEAD COUNTRY
<b>MAIZE</b>		
MZ-P10-2014	Investigating the occurrence of Maize lethal Necrosis Disease in Malawi, Mozambique and Zambia.	Malawi
MZ-P11-2014	Improving maize productivity and family income through cow's animal traction and organic fertilizer.	Mozambique
MZ-P12-2014	Improving and Sustaining Maize and Cowpea Productivity and Production among Smallholder Farmers in Malawi and Mozambique.	Mozambique
MZ-P13-2014	Improving maize and bean yields through the increased farmer accessibility to integrated disease and pest management (IPDM) technologies for major pests and diseases of maize and common bean in Malawi, Mozambique and Zambia.	Malawi
<b>RICE</b>		
RC-P06-2014	Participatory evaluation of improved rice varieties to increase productivity in Malawi, Mozambique and Zambia.	Malawi
RC-P07-2014	Improving rice productivity in saline soils and drought prone areas.	Mozambique
RC-P08-2014	Improving Surface Irrigation Drainage Water Reuse for Rice Production.	Malawi
RC-P09-2014	Improving Smallholders Rice Productivity and Livelihood through Introduction of Rice – Duck based Farming System in Mozambique and Malawi.	Mozambique
<b>LEGUMES</b>		

PROJECT CODE	PROJECT TITLE	LEAD COUNTRY
LG-P12-2014	Evaluation and dissemination of improved cowpea varieties in Mozambique and Zambia for enhanced food security, family nutrition and income.	Mozambique
LG-P13-2014	Efficacy of soil amendment with agricultural lime in reducing aflatoxin contamination in groundnuts in Malawi and Zambia.	Malawi
LG-P14-2014	Development of common bean and cowpea with aluminium tolerance.	Zambia
LG-P15-2014	Enhancing agro-processing and market access of food legume products for smallholder farmers in Zambia, Malawi and Mozambique.	Zambia
LG-P16-2014	Screening common bean varieties with improved biological nitrogen fixation for yield and quality.	Malawi
LG-P17-2014	Enhancing utilisation and marketability of groundnut /bambara nut through processing and improved post-harvest practices.	Zambia
LG-P18-2014	Development of common bean and cowpea with bruchid tolerance.	Zambia
<b>MULTIPLE CROPS</b>		
MC-P01-2014	Enhanced resilience to seasonal dry spells in rain-fed soya, maize and upland rice using silicon-based fertiliser.	Zambia
MC-P02-2014	Evaluation of pesticide residues in legume and cereal cropping systems in Zambia, Malawi and Mozambique.	Zambia
MC-P03-2014	Improving grains storage structures for smallholder farmers in Mozambique and Zambia.	Mozambique
MC-P04-2014	Reducing Mycotoxin Contamination of Maize, Groundnuts and Beans to Improve Food Safety Enhance Health and Trade.	Zambia
<b>CONSERVATION AGRICULTURE</b>		
CA-P01-2014	Herbicide weed control and performance among smallholder farmers practicing Conservation Agriculture.	Zambia
CA-P02-2014	Developing conservation agriculture maize-legume systems for smallholder farmers in Malawi, Mozambique and Zambia.	Mozambique
CA-P03-2014	Improving Soil Fertility and Reducing Green House Gas Emissions using Biochar in Conservation Agriculture.	Zambia
CA-P04-2014	Evaluation of trade-offs of tradition and partial adoption of CA systems for improved food security and incomes.	Zambia
CA-P05-2014	Disease and Pest Challenges in Maize Production under Conservation Agriculture Cropping Systems: What do we learn?	Malawi

**Cycle 3 (2016)**

PROJECT CODE	PROJECT TITLE	LEAD COUNTRY
<b>CASSAVA</b>		
CV-P01-2016	Pathogens limiting cassava culture in Angola, Mozambique and Zambia: epidemiology and integrated pest management measures.	Angola
CV-P02-2016	Molecular characterisation of released cassava varieties and selected clones in Angola, Mozambique and Zambia.	Zambia
CV-P03-2016	Cassava germplasm collection, characterization and conservation.	Angola
CV-P04-2016	Evaluation of cassava genotypes tolerant to abiotic stress in Angola, Mozambique and Zambia.	Angola
CV-P05-2016	Cassava quality, processing and utilisation: The influence of the variety and environment.	Zambia
<b>LEGUMES</b>		
LG- P19-2016	Scaling up of high yielding cowpea varieties and technologies in Mozambique, Malawi and Zambia.	Mozambique
LG- P20-2016	Use of pigeon pea and sorghum crop residues in goat feeding.	Mozambique
LG- P21-2016	Improving seed availability of high yielding and resilient groundnut varieties in Mozambique, Malawi and Zambia.	Mozambique
LG- P22-2016	Phenotypic and molecular characterization of common bean varieties released in Malawi, Mozambique and Zambia.	Malawi
LG- P23-2016	Enhancing the International Competitiveness of Small to Medium Sized Legume and Cereal Processing Enterprises through Facilitating the Adoption of Quality Assurance (QA) programs.	Malawi
LG- P24-2016	Development and Dissemination of a Manually Operated on-the-ridge Planter of Food Legumes.	Malawi
LG- P25-2016	Promoting Cowpea Productivity and Production through use of high Phosphorous use efficiency Cowpea Cultivars in Zambia, Mozambique and Malawi.	Zambia
LG- P26-2016	Development of a cowpea based weaning food.	Zambia
LG- P27-2016	Multi-Crop food legume germplasm collection and characterization in Malawi, Mozambique and Zambia.	Zambia
LG- P28-2016	Harnessing and unlocking the potential of local cowpea, bambara nut and Pigeon pea diversity for improved livelihoods of farmers and increased adaptive capacity to climate change for smallholder farmers in Malawi, Mozambique and Zambia.	Malawi
<b>CLIMATE SMART AGRICULTURE incl. CONSERVATION AGRICULTURE</b>		

PROJECT CODE	PROJECT TITLE	LEAD COUNTRY
CS-P01-2016	Optimising maize- cowpea intercropping systems productivity and water use resilience to climate change in Zambia and Mozambique.	Zambia
CS-P02-2016	Mainstreaming climate smart agriculture through sustainable solar- powered micro-irrigation for sustainable small scale business development.	Zambia
CA-P06-2016	Evaluating sustainable intensification opportunities for improved labour productivity using mechanised conservation agriculture in central Mozambique and Malawi (SIMECAMM).	Mozambique
<b>MAIZE</b>		
MZ-P14-2016	Promoting use of modern multipurpose hand-tools both for planting seed and applying fertiliser, and maize sheller as part of smallholder-farm mechanization in Malawi, Mozambique and Zambia.	Malawi
MZ-P15-2016	Development and diffusion of an on-spot fertilizer applicator for smallholder farmers in Mozambique and Zambia.	Zambia
MZ-P16-2016	Development of maize varieties tolerant to drought and heat by use of double haploid technology as a mitigation to climate change in Malawi, Mozambique and Zambia.	Malawi
MZ-P17-2016	Establishing core collections of example varieties and drought tolerance thresholds for maize to promote SADC seed trade.	Zambia
MZ-P18-2016	Assessment solar drying for reducing post-harvest losses in maize – a case of rural smallholder farmers in Malawi Mozambique and Zambia.	Malawi
<b>RICE/SORGHUM</b>		
RC-P10-2016	Dissemination of rice production technology to women in rural families and supplementation of rice sub-products in orphan children in Mozambique, Malawi and Zambia.	Mozambique
SG-P02-2016	Strengthening the Sorghum seed delivery for enhanced production among smallholder farmer in Mozambique and Zambia	Zambia
<b>OTHER TOPICS</b>		
SP-P01-2017	Enhancing National and Regional Capacity in Fall Armyworm ( <i>Spodoptera frugiperda</i> ) Management and Research in Malawi, Mozambique and Zambia	Malawi
SP-P02-2017	Drivers to Technology Adoption and Profitability for Cereals and Food legumes in Malawi, Mozambique and Zambia	Mozambique
SP-P03-2017	Development and Adaption of Appropriate Mechanisation Technologies for Selected Legumes in Smallholder Production	Zambia
<b>Total</b>		<b>77</b>

## Annex 2: APPSA Sub-projects for Phase 2

### First Cycle of APPSA Subprojects

PROJECT CODE	PROJECT TITLE	COUNTRY
LG-P01-2020	Performance of bean genotype under multi environments in Lesotho and Angola	Angola & Lesotho
LG-P02-2020	Characterization of common bean ( <i>Phaseolus vulgaris</i> L.) genotypes using morphological and molecular markers.	Angola & Lesotho
MC-P01-2020	Drivers to Technology Adoption and Profitability-Dissemination of improved technologies maize and beans in Lesotho and Angola.	Angola & Lesotho
MC-P02-2020	Collection, characterisation and conservation of Cassava, Peach trees and indigenous leafy vegetables germplasm in Angola and Lesotho	Angola & Lesotho
SG-P01-2020	Strengthening the sorghum seed delivery systems in Lesotho and Angola	Angola & Lesotho
CS-P01-2020	Pathogens limiting Cassava crops in Angola, Zambia and Mozambique: Epidemiology and Integrated Management	Angola
CS-P02-2020	Evaluation of drought-tolerant cassava genotypes in Angola, Zambia and Lesotho	Angola
MZ-P01-2020	Breeding maize tolerant to acid soils and other biotic and abiotic conditions in Angola and Lesotho using DH technology	Angola
<b>Total</b>		<b>8</b>

### Second cycle of APPSA Subprojects

PROJECT CODE	PROJECT TITLE	COUNTRY
CA-PO1-2022	Assessing the effect of biochar and fire on soil fertility and production of maize and beans under different farming systems in Lesotho and Angola	Angola & Lesotho
CA-PO2-2022	Mainstreaming climate-smart agriculture through sustainable solar-powered micro irrigation for sustainable small-scale business development	Angola & Lesotho
CA-PO3-2022	Evaluation of Trade-offs in Conservation Agriculture (CA) and Conventional Farming Practice Adoption Gradients Improved Food Security and Incomes	Angola & Lesotho
MC-PO1-2022	Promoting the adoption of improved management practices to increase sorghum and pearl millet production in Angola and Lesotho	Angola & Lesotho
MC-PO2-2022	Development and dissemination of legume-based food and fodder-based farming systems to improve cereal production in Angola and Lesotho	Angola & Lesotho
GS-PO1-2022	Improving Grains Storage Structures for Smallholder Farmers in Angola and Lesotho	Angola & Lesotho
LG-P01-2022	Screening and evaluation of common bean ( <i>Phaseolus vulgaris</i> L.) genotypes for their symbiotic	Angola & Lesotho

	nitrogen fixation and yield performance in Lesotho and Angola	
LG-P02-2022	Adaptation and Promotion of Bruchid Resistant Bean Varieties in Lesotho and Angola	Angola & Lesotho
LG-PO3-2022	Screening bean and cowpea varieties and advanced breeding lines for productivity in low soil fertility and drought prone areas in Angola and Lesotho	Angola & Lesotho
LG-PO4-2022	Soybean Introduction and Utilization Technologies to Enhance Nutrition and Income Generation in Lesotho	Angola & Lesotho
<b>Total</b>		<b>10</b>

### Third cycle of APPSA Subprojects

<b>PROJECT CODE</b>	<b>TITLE</b>	<b>COUNTRY</b>
PT-P01-2023	Induced mutation in Potato to improve drought adaptation and productivity	Lesotho
PT-P02-2023	Distribution, characterisation and management of Pectobacterium species causing Blackleg and Soft Rot Diseases of Potatoes in Lesotho.	Angola & Lesotho
CS-P01-2023	Distribution and characterization of viruses affecting cassava cultivation in Angola and Lesotho.	Angola & Lesotho
CS-P02-2023	Evaluation of a massive micropropagation system of cassava genotypes.	Angola
FT-P01-2023	Morphological and molecular characterization of mango culture in Angola.	Angola
FT-P02-2023	Influence of Propagation Methods on Pineapple Production in the Selected Soil and Climate Conditions of Angola and Lesotho	Angola
GS-P01-2023	Reduction of post-harvest losses of grains, roots and fruit and vegetables at the level of the small producer of Angola and Lesotho.	Angola & Lesotho
PT-P03-2023	Regulation of potato tuber sprouting and dormancy for seed and table potato use	Angola & Lesotho
VG-P01-2023	Evaluation of onion production systems and techniques in Angola and Lesotho.	Angola & Lesotho
VG-P02-2023	Production of high quality asparagus, garlic and bell peppers for high end market in the SADC region	Lesotho
MC-P01-2023	Promoting the adoption of Improved Management Practices for Increased Production and Dissemination of Sweet potato and Cassava Vegetative material for Family Farming In Angola and Lesotho	Angola & Lesotho
FT-P03-2023	Introduction of Integrated Practices for the Management of Tomato ( <i>Solanum lycopersicum</i> L.) Crop Pests in Angola and Lesotho	Angola & Lesotho
VG-P03-2023	Promotion of Vegetable Production under Intercropping Systems in Different Agro-ecological Zones in Lesotho and Angola	Angola & Lesotho

PROJECT CODE	TITLE	COUNTRY
FT-P04-2023	Promoting Healthy Peach and Citrus Tree Management Practices for Increased Fruit Yield and Quality at Homestead Gardens and Commercial Orchards	Angola & Lesotho
MC-P02-2023	Study of adaptability of new genotypes of wheat and garlic in the soil and climatic conditions of Angola and Lesotho.	Angola
MC-P03-2023	Integrated Pest Management for leaf miner ( <i>Tuta absoluta</i> ) in Tomato and Fall armyworm ( <i>Spodoptera Frugiperda</i> ) in Maize to increase food security in Angola and Lesotho	Angola & Lesotho
PT-P04-2023	Regenerative agriculture as an alternative to improve soil quality and potato ( <i>Solanum tuberosum</i> L.) production under rainfed conditions in Lesotho and Angola.	Angola & Lesotho
FT-P05-2023	Techniques of expansion of the coffee area from seeds naturally disseminated in Angola.	Angola
FT-P06-2023	Effects of irrigation water quality and fertilizer application on tomato production in Lesotho and Angola	Angola & Lesotho
FF-P01-2023	Farmer Field School: An emerging pathways for technology dissemination in Lesotho and Angola	Angola & Lesotho
MC-P04-2023	Selection and transfer of technology through rapid multiplication of cassava and sweet potatoes in family farming in Angola and Lesotho.	Angola & Lesotho
PT-P05-2023	Promotion and multiplication of potato varieties in Angola and Lesotho	Angola & Lesotho
RC-P01-2023	Introduction and dissemination of new improved rice varieties in communities in Angola and Mozambique.	Angola
CS-P03-2023	Evaluation, promotion and dissemination of BDPA and Cassava varieties for family farmers in Angola and Lesotho.	Angola
FF-P02-2023	Promotion of ties of Production and Commercialization of the Reindeer Potato Food System through Field Schools (ECA) and Farmers' Business Schools (ENA) in Angola and Lesotho.	Angola
<b>Total</b>		<b>25</b>