



POTATO VALUE CHAIN DEVELOPMENT PROJECT IN CAMEROON

Internal Midterm Review Report

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Ibrahim Adamu, Dieudonné Harahagazwe,
Victorine Fornkwa, Eric Tiozang, and Monica Parker

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International Potato Center
P.O. Box 1558, Lima 12, Peru
cip@cgiar.org • www.cipotato.org

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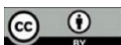
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Abbreviations

MINADER	Ministry of Agriculture and Rural Development
CAPs	Chiefs of agricultural Posts
CBFFS	Cluster Based Farmer Field School
CIP	International Potato Center
DRCQ	The Directorate of Regulation and Control of Inputs and Agricultural Products
FFS	Farmer Field School
FRFS	Farmer-Runs Field School
GAP	Good Agricultural Practices
GPVCG	Global Potato Value Chain Group
ProCISA	Green Innovation Centres for the Agriculture and Food Sector
PVCD	Potato Value Chain Development in Cameroon
ToT	Training of Trainers

1. BACKGROUND

The “ONE WORLD – No Hunger” Initiative (SEWOH) by the German Federal Ministry for Economic Cooperation and Development (BMZ) is part of the G7 goal to free 500 million people from hunger and malnourishment by 2030. SEWOH intends to contribute significantly to reducing poverty and hunger in developing countries in general and Cameroon in particular. The Cameroonian project is part of the framework of the global project – “Green Innovation Centres for the Agriculture and Food Sector” (ProCISA). The project that started in November 2014 is being implemented in close cooperation with the Ministry of Agriculture and Rural Development (MINADER) and the Ministry of Livestock, Fisheries and Animal Industries (MINEPIA), and other partners. It focuses, among others, on the potato value chain to introduce technical and institutional innovations along with the capacity building to increase efficiency and productivity for increased income from potato farming in the West, North-West, and Adamawa regions. With its value chain focus on production and commercialization, ProCISA also targets job creation and the role of women and youth in agriculture and food security. The capacity building around Good Agricultural Practices (GAP) is essential and a significant component in the ProCISA approach.

In the implementation of one of its objectives, ProCISA signed a grant agreement with the International Potato Center (CIP) due to its technical expertise on the potato food systems to implement a project titled “Potato Value Chain Development in Cameroon (PVCD),” which started in December 2018. PVCD project built on preliminary interventions conducted by CIP as a consultant from October 2016 to November 2018. In this light, the overall goal of the PVCD project is to promote sustainable intensification of potato production and provide business opportunities for small to medium-sized enterprises through innovative production practices, capacity-building, and developing appropriate business models. In a specific manner, the project is structured in five (05) components as follows: Policy engagement and Advocacy (i); Training at scale on good agricultural practices (ii); Seed production and Variety promotion (iii); Promotion of innovations and business models (iv); and M&E and Knowledge sharing (v).

1.1 Project objectives

The project components have the following objectives to achieve the proposed targets:

Objective 1: Stakeholder sensitization and engagement to further develop a sustainable national potato strategy based on existing support policies within the Ministry of Agriculture and Rural Development (MINADER) for the potato value chain (Policy strategy support).

Objective 2: Building capacity of trainers, extension staff, and farmers in sustainable Good Agricultural Practices (GAP), innovative and agro-ecological farming methods, and business skills on the farm. The target numbers of trained persons at each of the three-level training to be conducted in close collaboration with GIZ-ProCISA are 45 trainers, 720 lead farmers, and 49,320 smallholder farmers. In combination with the other GIZ-ProCISA interventions, we expect this intervention will result in at least 74,000 direct and indirect farmers having increased incomes and productivity records, i.e., 50% of the total target.

Objective 3: Establish a sustainable national seed system for improved access of farmers and cooperatives to quality seed of disease-resistant and market-demanded varieties for increased productivity and resilience. This will be done by establishing and strengthening the national seed system integrating local potato seed multiplication (the entire multiplication chain from in-vitro to certified seed production) and new varieties multiplied locally.

Objective 4: Use of innovative and resource-saving cropping, storage, and marketing methods through cooperatives, innovation sites, and other farmers using demonstration plots, model storage systems, and contractual marketing schemes with buyers. Furthermore, the improvement of the degree of organization, internal services, management, and financial power of the cooperatives is envisaged. This is to reduce post-harvest losses and improve the value of potatoes through better market conditions.

Objective 5: Establish a monitoring and evaluation system to collect and document progress against baseline situation and performance indicator targets through monitoring surveys, continuous and longitudinal monitoring of a carefully selected panel of 300 farmers to document productivity and gross margin changes closely. The selected panel will represent farmers from three categories of the intensity of intervention, namely: 40 lead farmers (FFS), 195 smallholder farmers (FRFS), 45 spillover farmers, and 30 other farmers (i.e., 10% of the total sample, as the reference group - neither direct nor indirect beneficiaries).

2. PURPOSE OF THE EVALUATION

The objectives of the internal mid-term review were to:

- a) Assess the level of implementation of the project activities;
- b) Quantify the achievement of the project indicators against the targets;
- c) Discuss ways of improving the planning, appraisal, and performance; and
- d) Inform the donor and project's stakeholders about the progress made to ensure accountability for the project result framework.

3. REVIEW METHODOLOGY

This mid-term review covers the implementation period of December 2018 to June 2021. It involved:

- A thorough review of project documentation and relevant background documents ;
- Analysis and restructuring of the project database to see what was done, when, how, and who benefited ;
- Preparation of a detailed description of the project interventions, including the quantification of achieved benefits;
- Compiling GPS coordinates of project sites from the regions and other satellite imagery for mapping and database purposes; and
- Brainstorming through a workshop and interactions among the project implementation team.

Given the importance of this mid-term technical review within the project cycle, the project team held a workshop on 25 July 2021 at the Nkolandom Touristic Center in Ebolowa (Fig. 1). Hence, this report is an outcome of that workshop.



Figure 1. Group photo of CIP staff reviewing the project progress through a mini-workshop held on 25 June 2021 in Ebolowa.

4. PROJECT MID-TERM RESULTS

4.1 Geographic scope

The project was designed to be implemented in three major producing regions, i.e., Adamawa, North-West, and West. But, due to the current sociopolitical crisis in the North-West region, project activities could not begin in the North-West region until June 2021, when ProCISA signed a grant agreement with the Regional College of Agriculture (RCA) based in Bamili, North-West region. This partner will be our entry point to start implementing project interventions in the North-West region. Activities will be extended to the Lebialem Division located in the South-West region but adjacent to the West and north-West regions.

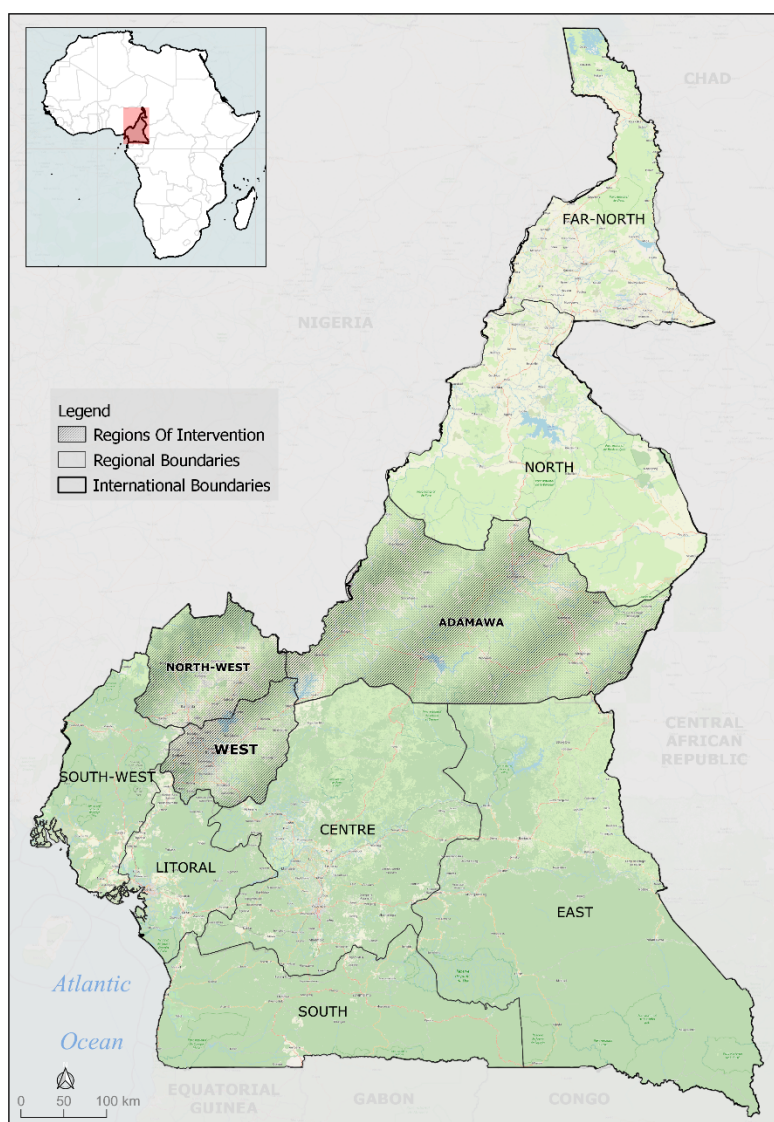


Figure 2. Geospatial representation of project intervention zones (regions).

The maps presented below show the localities where various project activities are being implemented in Adamawa (Fig. 2) and the West region (Fig. 3).

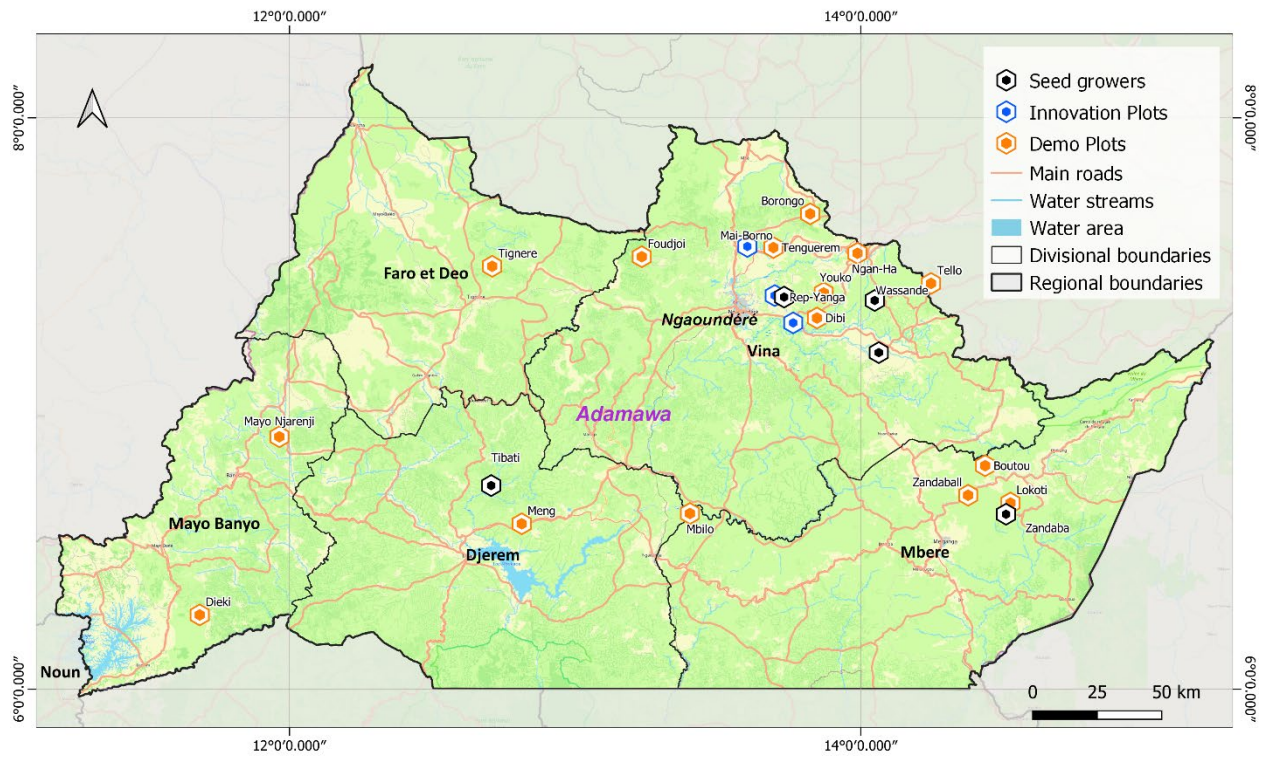


Figure 3. Geospatial representation of project activities in the Adamawa region.

The Adamawa map shows that the project is being implemented in all five divisions. However, most activities are taking place in the Vina division. This strong presence may be due to its altitudes higher than that of the other divisions in the region, thus favorable for a crop like potato that likes cool environments.

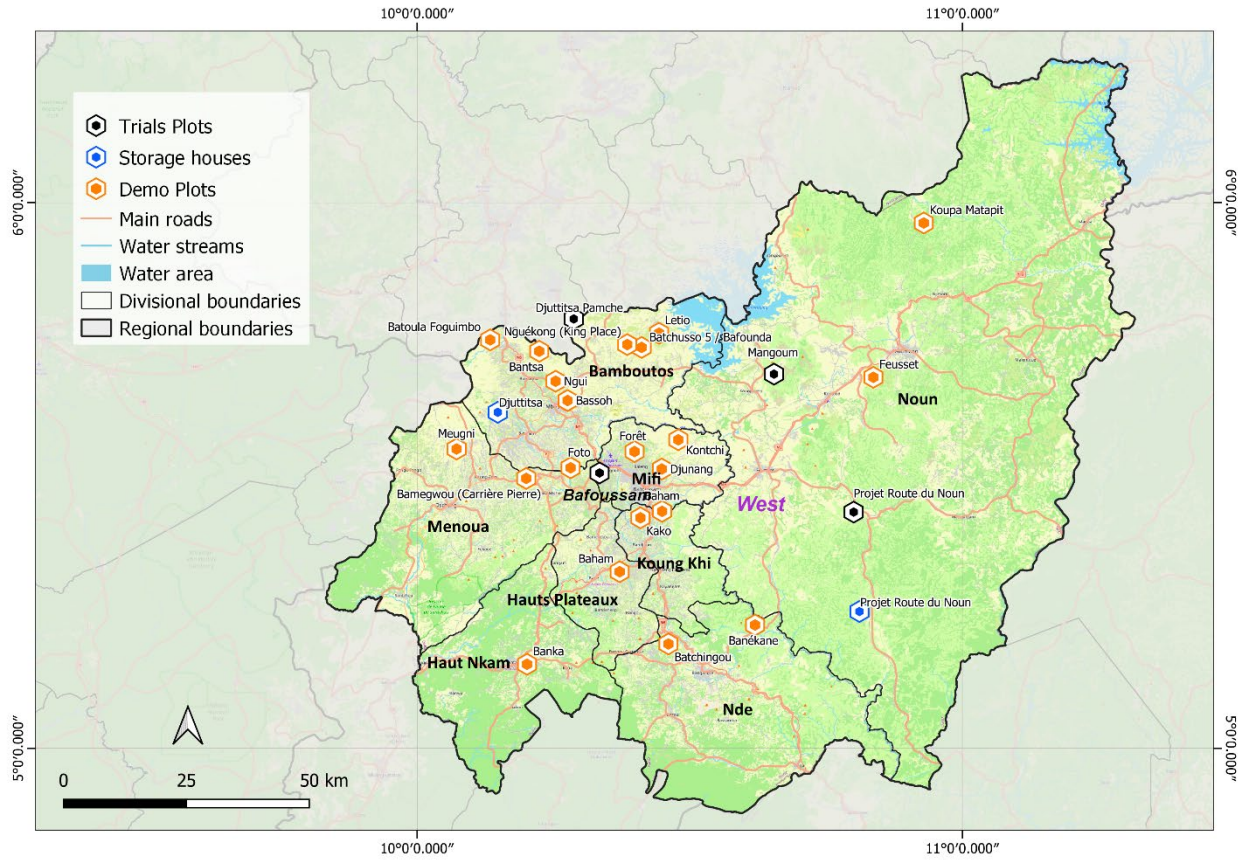


Figure 4. Geospatial representation of project activities in the western region.

The West region map shows that the project is present in all eight divisions. The same map shows that most project interventions are in higher altitudes, which is typical for a crop like potato.

4.2 Activity implementations per project objective

We summarize the progress made through tables presenting the project activities and their status, the sub-activities implemented, and the short-term plan for each project objective. The short-term plan span May to October 2021.

4.2.1 Policy engagement and advocacy

Objective: Stakeholder sensitization and engagement to further develop a sustainable national potato strategy based on existing support policies within the Ministry of Agriculture and Rural Development (MINADER) for the potato value chain.

Table 1. Activity implementation on policy engagement and advocacy

Project Indicator	Indicator code	Project activities			Project sub-activities		Observations
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status	
An assessment report on the policy and legal framework conditions in the potato sector (to be integrated into the potato value chain report)	A1	Conduct an assessment of the policy and legal framework conditions	Not yet started	Yes			This activity will be combined with A2
The national potato strategy 2020-2030 updated and validated	A2	Contribute to updating and validation of the national potato strategy	In progress	Yes	Liaise with ProCISA to secure the buy-in of the MINADER	Completed	
					Facilitate the first meeting of the Taskforce	Completed	
					Draft the minutes of the minutes	Completed	
					Seek similar strategies from other countries (Kenya, Ethiopia, etc.) for reference	Completed	
					Prepare the first workshop of extended Working group to take place in Ebolowa	In progress	
The national seed scheme established and validated, including the road map for its implementation	A3	Contribute to the establishment of a roadmap and conditions for a	In progress	Yes	Make a follow-up with IRAD for a collaboration agreement	Completed	
					Make a follow-up with Structure TOWA for a collaboration agreement	Completed	

Project Indicator	Indicator code	Project activities			Project sub-activities		Observations
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status	
		sustainable national seed system			Make a follow-up with the University of Dschang for a collaboration agreement	Completed	
					Make a follow-up with DRCQ for a collaboration agreement	In progress	
					Make a follow-up with seed potato growers for collaboration agreements	In progress	
A national potato stakeholder platform established and functional (roles, objectives, and general functioning well defined, including financial aspects, timing, information flow, tasks of specific stakeholders within the platform/the sector)	A4	Facilitate stakeholders' workshops and similar activities for the establishment of a national potato platform	In progress	Yes	Make a follow-up with ProCISA on the launch of a national potato platform	In progress	The stakeholder workshop will be held on 23 August 2021. It will be facilitated by a German private company.
					Attend the GIZ-funded Global Potato Value Chain Group (GPVCG) virtual meetings	In progress	

4.2.2 Training at scale on good agricultural practices

Objective: Building capacity of trainers, extension staff, and farmers in good agricultural practices (GAP), innovative and agro-ecological farming methods, and business skills on the farm.

Table 2. Activity implementation on training at scale on good agricultural practices

Project Indicator	Indicator code	Project activities			Project sub-activities	
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status
Develop and update ToT and CBFFS training programs and materials	B1	Develop and update ToT and CBFFS training curricula and materials	In progress	Yes	Establish a training approach using FFS	Completed
					Develop the ToT training manual	Completed
					Develop flyers for extension services et farmers on late blight	In progress
					Develop flyers for extension services and farmers on Bacterial Wilt”	
					Develop flyer on the technical itinerary of potato production	In progress
					Develop a flyer on the utilization of the phytosanitary product for potato production	In progress
					Develop flyers on the specificity and techniques of hilling up	
45 trainers from three training centers, more than 30 Chiefs of Agricultural Posts (extension agents) from MINADER and 720 facilitators are trained and	B2	Conduct and facilitate GAP training at different levels in collaboration with training centers and other stakeholders	In progress	Yes	Theoretical training of trainers from the West (20 trainers), North-West (10 trainers) and Adamawa (15 trainers) regions on GAP of ware potato	Completed
					Practical training of trainers from the West (20 trainers) and Adamawa (15 trainers) regions on the technique of the small seed plot and FFS	Completed

Project Indicator	Indicator code	Project activities			Project sub-activities	
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status
continuously on Good Agricultural Practices through the CBFFS approach and are able to effectively lead the Cluster- Based Farmer Field School (CBFFS) and the Farmer Business School (FBS).					Practically train the trainers of the North-West (10 trainers) on the technique of small seed plot and FFS	In progress
					Train MINADER technical officers on GAP of ware potato	Completed
					Train 30 CAPs on GAP of ware potato	Completed
					Provide theoretical and practical training of facilitators through trainers on GAP and TPPS.	In progress
					Facilitate the practical training of trainers and facilitators in the North-West region and Lebialem division	In progress
40 innovation sites are created with all the innovations applied and become entry points for passing on GAP and other innovations	B3	Establish innovation sites to empower project stakeholders at various levels	In progress	Yes	Set up an observation trial on local varieties in the Adamawa and West region	In progress
					Follow up on GAP demo plots installed in both regions	In progress
					Set up 35 innovation sites in the regions	In progress

4.2.3 Seed production and variety promotion

Objective: Establish a sustainable national seed system for improved access of farmers and cooperatives to quality seed of disease-resistant and market-demanded varieties for increased productivity and resilience.

Table 3. Activity implementation on seed production and variety promotion

Project Indicator	Indicators' code	Project activities			Project sub-activities		Observations
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status	
Training curricula for service providers and entrepreneurs with production manual for rapid multiplication technologies available for early generation seed potato multiplication.	C1.1	Develop training guide and production guidelines for early generation seed potato	Not yet started	Yes			
Training curricula and manual for seed potato field multiplication available in Cameroon and available for coaches and partner institutions.	C1.2	Develop training materials and production guidelines throughout the seed potato production sector	In progress	Yes	Develop a Seed manual in English and French	Completed	
					Update training modules for seed growers in English and French	In progress	
The national seed scheme is established and functional at all levels of seed potato production (tissue culture, mini tubers, rooted apical cuttings, and field cycles).	C1.3	Document the current seed system and design new seed models	In progress	Yes	Document the current status of basic seed multiplication in the West and Adamawa region through a quick survey	In progress	
					Facilitate seed stakeholders' workshops in the three regions	In progress	

Project Indicator	Indicators' code	Project activities			Project sub-activities		Observations
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status	
					Participate in regular meetings of the regional consultation platform	In progress	
At least two tissue culture laboratories backstopped.	C1.4	Backstop public and private tissue culture labs	In progress	Yes	Facilitate the first steps for the certification of a private tissue culture lab	Completed	
					Support the two lone tissue culture labs in the country with equipment/material and provide continuous technical backstopping.	In progress	
At least two screenhouses established for mini tuber and rooted apical cuttings production.	C1.5	Strengthen infrastructures for early generation seed production	In progress	Yes	Conceptualization of a screenhouse for seed potato production (rooted apical cuttings and minitubers)	Completed	
					Follow-up with IRAD on the construction of a model screenhouse in the West region.	In progress	
					Make a follow-up with stakeholders for investing in screenhouses.	In progress	
At least 35 inspectors and other lab technicians trained in quality control and modern pest and disease detection techniques.	C1.6	Empower DRCQ inspectors in quality assurance with emphasis on pest and disease detection	In progress	Yes	Recruit an international consultant to train DRCQ staff	In progress	The consultant is signing the contract
At least three degenerated Cameroonian varieties cleaned and re-introduced in	C1.7	Clean up and facilitate the multiplication of	In progress	Yes	Follow-up with the IRAD Bambui lab for the cleaning of degenerated IRAD/CIP and other	In progress	

Project Indicator	Indicators' code	Project activities			Project sub-activities		Observations
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status	
the national seed system from the tissue culture labs to the fields.		degenerated potato varieties			local varieties through meristem culture		
					Test the phytosanitary status of the materials regenerated	In progress	ELISA kits are being imported
At least 50 seed multipliers selected and trained on seed multiplication techniques through regular technical backstopping.	C1.8	Train and backstop stakeholders involved in the seed sector throughout the entire seed system	In progress	Yes	Identify stakeholders in the seed potato sector	In progress	Completed for the Adamawa and West regions
					rain 50 seed growers of the Adamawa, West, North-West regions and the Lebialem division	In progress	Completed for the Adamawa and West regions
		Study tour for new technologies: seed system, apical cuttings, diagnostics	Not yet started	Yes			
At least 150 youths trained as service providers for spraying, seed grading, and storage monitoring	C1.9	Train youths trained as service providers for spraying, seed grading, and storage monitoring	In progress	Yes			Training modules are being developed
Business models with farm gate prices for improved seed calculated with local multiplication and mini tuber production.	C1.10	Conduct business model studies in the seed potato sector	Not yet started	Yes			
At least two new high yielding, climate-smart, and marketable varieties officially released and included into	C2.1	Support the participatory varietal evaluation in collaboration with national research institutions and private sector	In progress	Yes	Introduce and multiply minitubers for two promising varieties (Unica and Chulu) in Batcha, West region, by a seed grower as a service provider	Completed	

Project Indicator	Indicators' code	Project activities			Project sub-activities		Observations
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status	
the seed system for widespread dissemination					Participate in the establishment of DUS and VCU trials with IRAD and the DRCQ for the two new resilient and high yielding varieties, Chulu and Unica	In progress	Trials will be established again for the second season
		Strengthen the official release process of new varieties and material exchange	In progress	Yes	Contribute to the development of the DUS and VCU testing protocols by the DRCQ	Completed	
					Participate in the evaluation of the DUS and VCU trials for the homologation and release of the two new varieties	In progress	IRAD and DRCQ are analyzing the results of the first trials.
Current status and opportunities of potato adaptation to climate change documented	C2.3	Document the current status and opportunities of potato adaptation to climate change	Not yet started	No			
Seed import documents complying with the legal procedures and the realities of Cameroon developed.	C2.4	Contribute to the development of seed regulatory documents	In progress	Yes	Contribute to the development of a seed potato certification regulation by the DRCQ	In progress	

4.2.4 Promotion of innovations and business models

Objective: Evaluating and implementing innovative technologies for cooperatives and other farmers using services based on agronomy, storage, mechanization, cooperative management, and marketing methods.

Table 4. Activity implementation on innovations and business models

Project Indicator	Indicators code	Project activities			Project sub-activities	
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status
Smallholder-adapted agronomic packages developed for sustainable intensification of potato-based cropping systems and integrated into the training curriculum and program	D1.1	Demonstrate the importance of good agronomic practices	In progress	Yes	Conduct a fertilization trial in the West region	In progress
					Conduct a trial on spraying options against late blight in Adamawa	In progress
Information on the market potential of candidate varieties prepared and made public	D1.2	Prepare and disseminate the information on the market potential of new varieties	Not yet started	No		
The recommendations of high and medium input for natural resource-efficient farming systems updated	D1.3	Document the efficiency of inputs and natural resources	In progress	Yes	Set up two experiments in the Adamawa and West regions	In progress
Recommendations on innovative water use efficient irrigation systems and potato production systems published	D1.4	Introduce and test water-saving techniques	Not yet started	No		
Recommendations for using mechanization in potato farming systems formulated	D1.5	Evaluate mechanization options for optimal potato production	In progress	Yes	Explore the possibility of collaborating with CENEEMA on the small mechanization for potato production	Completed
The Innovations described in the innovation fact sheets	D1.6	Develop innovation fact sheets	Not yet started	Yes		
Profitability report developed for bankable innovations like	D1.7	Study the cost-effectiveness of bankable innovations	Not yet started	Yes		

Project Indicator	Indicators ' code	Project activities			Project sub-activities	
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status
for producers of seed and machinery service providers						
Cost-benefit analysis for seed potato storage options carried out	D2.1	Conduct the cost-benefit analysis for seed potato storage options	Not yet started	Yes		
Manuals for construction and management of storage facilities developed	D2.2	Develop guidelines for the construction and use of affordable storage facilities	In progress	Yes	Conceptualize the appropriate types of DLS for small and medium-sized farmers	In progress
At least two demonstration storages built with the contribution of farmer cooperatives	D2.3	Establish storage facility models for awareness creation and dissemination	In progress	Yes	Visit the sites that will host the potato storage facilities in Adamawa	Completed
					Describe the diffuse light stores for the Wakwa and Rep-Yanga sites	In progress
Existing ROPA (<i>renforcement des organisations de producteurs agricoles</i>) modules on coaching for principles of cooperative functioning, services, commercialization, financial management, and coaching techniques further developed	D3.1	Empower potato growers in agri-business and finance in collaboration with cooperatives and financial service providers	In progress	Yes	Develop terms of reference for the ROPA training	In progress
14 cooperatives supported in business plan development and market linkages through local or international facilitation	D3.2	Support business plan development and market linkages	Not yet started	Yes	Liaise with ProCISA on the characterization of cooperatives	In progress
At least 300 cooperative members and service providers on ROPA coached through COOPEXP	D3.3	Coach cooperative members	In progress	Yes	Discuss with ProCISA the results of the survey on the profiling of cooperatives in the West and Adamawa regions	In progress

4.2.5 M&E and knowledge sharing

Objective: Baseline data and documentation of progress and performance indicators by analyzing and monitoring the results are provided on all levels.

Table 4. Activity implementation on M&E and knowledge sharing

Project Indicator	Indicators' code	Project activities			Project sub-activities	
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status
A quick and specific baseline and endline study on agronomic practices using an ICT-based tool	E 1	Conduct the baseline study	In progress	Yes	Develop terms of reference for a baseline to be conducted in the Adamawa and West regions	Completed
					Administer the baseline study in two regions and analyze data	Completed
					Draft the baseline report and publish	In progress
Progress reports of monitoring activities (baseline, progress, endline)	E2	Coordinate all the project MEL activities	In progress	Yes	Develop and update appropriate tools for the overall project M&E.	In progress
					Implement the M&E plan in close collaboration with the partners, including the GIZ-ProCISA M&E team and participating training centers	In progress
					Train project partners on the M&EE system, in particular the use of data forms and reporting formats, and provide ongoing coaching support through regular site monitoring visits for quality control and timely problem-solving.	In progress
					Participate in internal and external M&E E and training meetings and other project-related activities.	In progress
Mapping of training and innovation centers, demo plots, model/seed farms, and cooperatives using GPS-based technology	E3	Map the project interventions	In progress	Yes	Map the project sites in the Adamawa and West regions	In progress
Collection and compilation of	E4	Collect and compile monitoring data to feed	In progress	Yes	Develop terms of reference for monitoring the FFS and FRFS in the Adamawa and West regions	In progress

Project Indicator	Indicators' code	Project activities			Project sub-activities	
		All activities	Status	Planned before Nov. 2021	Implemented sub-activities	Status
monitoring data to feed the GIZ monitoring system, including socio-economic data		the GIZ monitoring system, including socio-economic data				
Publications on innovations, technologies, and processes, including training	E5	Draft routine report (bi-weekly, monthly, quarterly, and semi-annual)	In progress	Yes	Draft and submit routine reports	In progress
		Participate in the agricultural shows	In progress	Yes	Participate in the 2020 agri-shows in the West and Adamawa regions	Completed
		Distribute seed manuals and other publications	In progress	Yes	Distribute seed manual	In progress

4.3 Achievement rates of targets

The project implementation rate is estimated by measuring the level of execution or measurement of the project indicators or targets set in the proposal, as summarized in Table 6.

Table 5. Summary of achieved results against the project targets

Component 1: Policy Engagement and Advocacy					
Indicator Code	Indicator	Target	% of target achieved	Means of verification	Observations
A1	Policy and legal framework conditions documented	policy and legal framework conditions	0	Report on the policy and legal framework	
A2	2021-2030 national potato strategy updated	2021-2030 national potato strategy	20	Attendance sheets of working sessions, updated strategy	In progress
A3	Established seed scheme and the road map	Seed scheme and road map	30	Workshop attendance sheet	IRAD, TOWA, University of Dschang
		Collaboration agreements	60	Signed agreements, workshop report	
A4	Potato stakeholder platform established	01 platform	20	Stakeholders database	
Component 2: Training at scale on good agricultural practices					
Indicator Code	Indicator	Target	% of target achieved	Means of verification (Deliverables)	Observations
B1	CBFFS system is well-designed	Well-designed CBFFS system	100	Proposal, ToR	
B2	Number of trainers trained	45 trainers (theoretical training)	100	Training reports	Due to the ongoing crisis in the North-West region that has led to insecurity, training of trainers in this region is yet to be organized.
		45 trainers (Practical training)	78	Attendance sheets of the training workshops	
	Number of CPA trained	30 CPA	410	Training workshops reports; workshop attendance sheets	123 CPA were trained; therefore, there is an extra of 93 trained CPA

	Number of lead farmers trained	720 lead farmers	107	Training report, attendance sheets	772 trained already in the West and Adamawa regions
B3	Innovation sites created	40 innovation sites	18		In progress
Component 3: Seed production and Variety promotion					
Indicator Code	Indicator	Target	% of target achieved	Means of verification	Observations
C 1.1	Training curricula and manuals for service providers developed.	1	0		In progress
C 1.2	Number of training manuals multiplied	1 seed manual in French and English	100	650 copies of the manual printed (250 English and 400 French)	1 seed manual developed
C 1.3	National seed scheme established	01 National seed scheme	30		
C 1.4	Number of tissue culture laboratories backstopped	02 laboratories	50	List of lab materials, Invoices of materials, and material handover reports	<ul style="list-style-type: none"> The IRAD Bambui lab has been backstopped The STRUCTURE TOWA lab was provided with technical backstopping
C 1.5	Number of screenhouses established	02 screenhouses	20	Architectural design, Cost Estimate, Construction	Sites identified and service provider for the construction selected for IRAD Bayangam
C 1.6	Number of inspectors and lab technicians trained	35 inspectors and lab technicians	20	Training modules, Training report, Attendance sheets	International consultant identified
C 1.7	Number of degenerated local varieties cleaned and re-introduced in the seed systems	03 local varieties	66	In vitro plantlets established from meristem culture	01 variety (Jacob 2005) by IRAD and Manate by Structure TOWA
C 1.8	Number of seed multipliers trained	50 seed multipliers	64	Training report, attendance sheets	Training of seed multipliers of the North-West region and Lebialem division in preparation
C 1.9	Number of youths trained as service providers for spraying, seed grading, and storage monitoring	150 youths	10	Training report, attendance sheets	Modules development is currently going on
C 1.10	Business models with farm gate prices established	03 business models	10		
C 2.1	Number of new varieties officially released	02 new varieties	40	DUS and VCU reports, release report, Catalogue	In progress

C 2.2	Documented climate resilience of existing varieties	01 document	40	Technical reports, Catalogue	In progress
C 2.3	Documented status and opportunities of potato adaptation to climate change	01 document	0%	Technical reports	
C 2.4	Documented complying with legal procedures of seed import in Cameroon developed	01 regulation	40	Official technical regulations	
Component 4: Promotion of innovations and business models					
Indicator Code	Indicator	Target	% of target achieved	Means of verification	Observations
D 1.1	Smallholder-adapted agronomic packages developed for sustainable intensification of potato-based cropping systems and integrated into the training curriculum and program;	01 document on smallholder-adapted agronomic packages	0		
D 1.2	Prepared handout on market potential of varieties	A document on the market potential of varieties	10	reports	
D 1.3	Updated document for natural resource-efficient farming systems	01 document on recommendations about resource-use efficiencies	10	Technical reports	
D 1.4	Reports on irrigation options for potato cultivation	01 document on recommendations about irrigation	0	Technical reports	
D 1.5	Mechanization in potato farming systems documented	01 document on recommendations about mechanization	5	Technical reports	
D 1.6	Innovation fact sheets developed	01 innovation fact sheet	5	Fact sheets	
D 1.7	Profitability report developed for bankable innovations	Profitability report	0	Reports	
D 2.1	Cost-benefit reports	01 cost-benefit analysis report	0	Report of consultant	

D 2.2	Number of construction manuals	01 DLS construction manual	30	Manuals	
D 2.3	Number of demonstration storages built	02 storages built	30	Report of consultant	Constructor identified
D 3.1	Number of ROPA organized	03 ROPA organized	15	Report of consultant	
D 3.2	Number of cooperatives supported	14 Cooperatives	10	Report of consultant	ToR drafted
	Number of cooperative members and service providers on ROPA coached through COOPEXP.	300 cooperative members and service providers	10	Report of consultant	ToR drafted
Component 5: M&E and Knowledge sharing					
Indicator Code	Indicator	Target	% of target achieved	Means of verification	Observations
E 1	Baseline study conducted	01 baseline study report	70	Filled questionnaire, Baseline report	In progress
E 2	Midterm survey conducted;	01 Midterm review	60	Midterm report	
	Endline survey conducted	01 Endline survey	0	Questionnaire, reports	
E 3	Demo plots, seed growers, innovation sites, and cooperatives are mapped.	01 map with different layers	50	GPS; GPS coordinates sheet; map	In progress
E 4	Semester and annual reports drafted and submitted to the donor	02 semester reports per year;	60	Semester reports	In progress
E 5	Innovations, technologies, and training are published	Manuals	50	Journals, Online links	

5. CONCLUSIONS AND RECOMMENDATIONS

Even though the project started with several challenges, the results presented in this report provide enough evidence that its implementation in the three project regions, i.e., Adamawa, North-West, and West, is now on the right track. The ongoing process of updating and validating the first-ever national potato strategy will create a conducive environment for a vibrant and sustainable value chain that builds on public-private partnerships. The ongoing training at scale on good agricultural practices for ware potato production has been successfully cascaded down. The training of trainers is almost complete in all the three regions. Trained facilitators through farmer-field schools are passing on the training to producers using the farmer-run field schools. The introduction of Unica and Chulu varieties encountered regulatory issues, but the two varieties are being tested by the Institute of Agricultural Research for Development for potential release. The first field evaluation showed promising results. The seed system is being reinvigorated through the capacity strengthening of the key public and private stakeholders. The same capacity building is taking shape to increase the critical mass for scientifically evaluating new technologies and innovations. In monitoring, evaluation, and knowledge sharing, we note the baseline study conducted even though the final report is in it is the final stage. Also, all the interventions are mapped to ensure broad coverage of the project areas. Furthermore, various training manuals and tools were developed and widely distributed using physical and digital channels.

Due to the number and magnitude of activities to carry out, it was impossible to initiate all the activities. Most pending activities are related to late stages in a potato value chain, including storage, marketing, and agripreneurship. These activities will begin by the end of the year and will be a top priority next year. Due to the socio-political crisis happening in the anglophone regions, most activities were carried out in the Adamawa and West regions. Their implementation in the North-West region and Lebialem division has just commenced.

Given the remaining project timeframe, more emphasis should be accorded to the following actions:

- Find mechanisms for accelerating the process of updating the nation potato strategy;
- Liaise with training centers and ProCISA to ensure that the farmer-field schools and farmer-run field schools are being properly supervised;
- Ensure that there is better coordination between partners from testing recently introduced potato varieties;
- Invest more time in convincing stakeholders in establishing infrastructures for early generation seed; and
- Identify strategic partners for implementing socio-economic studies.

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For more information, please contact CIP Headquarter. Av. La Molina 1895, La Molina. Apartado 1558, Lima 12, Peru.

☎ 5-11-3496017 ✉ cip-cpad@cgiar.org 🌐 www.cipotato.org | 📘 @cipotato 🐦 @Cipotato 📷 @cip_cipotato

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