

Log Frame Code	L1	L2	L3	L4	Summary of objectives	Indicator	Means of Verification	Assumptions/Risks
	Intermediate Outcome	Intermediate Outcome	Output	Activity				
Project Goal					Improved capacity of agriculture agents in Ghana to provide services to farmers that are market oriented, gender sensitive and environmentally sustainable	1. % of women and men farmers satisfied with access to and quality of extension services 2. % of women and men producers who have adopted environmentally sound technologies 3. Proportion of farmers that have acquired market oriented skills	Project Evaluation Report; Project Progress Report MoFA Reports	1. Farmers/other actors are susceptible to change to modern ways of production, marketing and packaging 2. Government Policies remain favourable
I.0	I				Graduates of 5 Agricultural Colleges equipped with practical farm/agribusiness, commodity value chain management skills that are sensitive to gender and environmentally sustainable agriculture.	% of graduate from agricultural colleges & institutes that meets the needs of agricultural services; % of female graduates from the Agriculture colleges % Proportion of graduates that are able to setup agribusiness % Proportion of graduates that put practical skills into use	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. No major economic shift that will lead to loss of graduates to other sectors outside the value chain. 2. Socio-economic and Political stability remains
I.1	I	I			Reoriented curriculum with updated teaching aid and materials adopted and taught in the agricultural colleges	% of Agriculture colleges & institutes curricula that have adopted teaching methodologies; % of trainers/tutors that have adapted to new teaching methodologies	Project evaluation report; mid year evaluation, Agricultural Colleges report, MoFA Reports	1. There is socio-political stability in the areas where the Agriculture Colleges are situated 2. Stakeholders remain committed to project implementation
I.1.1	I	I	I		Curriculum of Agricultural Colleges modernized to respond to market-oriented agriculture with emphasis on agribusiness, gender sensitivity and environmentally sustainable agriculture.	Proportions of curriculum reviewed and modernised, proportions that are environmentally focused, gender focus.	Project reports, site visits reports, MoFA and Colleges reports	1. No significant changes to the existing educational policy for the agricultural colleges 2. Stakeholders remain committed to project implementation
I.1.1.1	I	I	I	I	Secondary review of curriculum at agriculture colleges and institutes (2 year and 3 year programs)			1. Donor Partners are committed and continue funding 2. Government policy decisions remains favourable and committed to the project 3. Socio-Political Stability continues during project implementation 4. Other Key stakeholders remain committed to project implementation
I.1.1.2	I	I	I	2	Use Expatriate and local specialists in Pedagogy and College Curriculum development.			
I.1.1.3	I	I	I	3	Prepare draft report on secondary review of curriculum			
I.1.1.4	I	I	I	4	Meet with Directors of HRDM/DAES to discuss draft report findings on 2 year and 3 year programs			
I.1.1.5	I	I	I	5	Meet with University of Cape Coast led by MoFA on the 3 year program curriculum review			
I.1.1.6	I	I	I	6	Plan strategy, prepare evaluation instruments and pedagogy techniques			
I.1.1.7	I	I	I	7	Conduct field visits and on site reviews at colleges and institutes			
I.1.1.8	I	I	I	8	Conduct broader consultations and reviews with relevant stakeholders (MoFA, University of Cape Coast, Other Universities, NGOs, Civil Societies, FBOs, private and public agriculture institutions)			
I.1.1.9	I	I	I	9	Prepare draft zero of new farm management/agribusiness curriculum			
I.1.1.10	I	I	I	10	Conduct stakeholder meeting / workshop on draft curriculum			
I.1.1.11	I	I	I	11	Prepare finalized farm management/agribusiness curriculum			
I.1.1.12	I	I	I	12	Seek accreditation by NAB, University of Cape Coast			
I.1.1.13	I	I	I	13	Publish modernized curriculum			
I.1.1.14	I	I	I	14	Organise dissemination workshop			
I.1.2	I	I		2	Teaching/Training materials and aids updated to reflect market oriented agriculture, agribusiness development and farm methodologies, techniques and management	Number of training materials and teaching aids updated, published and disseminated. Proportions of training materials reviewed	Project reports, site visits reports, MoFA and Colleges reports	1. There is Socio-political stability stakeholder and partners are committed and continued funding 2.
I.1.2.1	I	I		2	Prepare draft new/revised curriculum materials for colleges			1. Donor Partners are committed and continue funding 2. Government policy decisions remains favourable and committed to the project 3. Socio-Political Stability continues during project implementation 4. Other Key stakeholders remain committed to project implementation
I.1.2.2	I	I		2	Prepare draft new/revised curriculum teaching/training aids			
I.1.2.3	I	I		3	Review and approval of curriculum materials, teaching/training aids by MoFA/University of Cape Coast			
I.1.2.4	I	I		4	Publish and disseminate materials, teaching/training aids on new curriculum			

1.2	1	2			Faculty staff skills developed in the usage of pedagogy, agribusiness and market oriented agriculture curriculum at the agricultural colleges and institutes	% of faculty of agriculture colleges and institutes applying new pedagogy, agribusiness and market oriented agriculture % of faculty of agriculture colleges that applied the new pedagogy correctly	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. There is socio-political stability in the areas where the Agriculture Colleges are situated 2. No/insignificant staff attrition
1.2.1	1	2	1		Faculty of colleges/institutes trained in reoriented training strategies geared towards all aspects of agri-business and farm management	Number of faculty/tutors trained in reoriented training strategies, agribusiness and farm management	Project reports, training reports, site visits reports, MoFA and Colleges reports	1. There is Socio-political stability stakeholder and partners are committed and continued funding 2.
1.2.1.1	1	2	1	1	Facilitate the training for faculty/trainers on pedagogy			1. Donor Partners are committed and continue funding 2. Government policy decisions remains favourable and committed to the project 3. Socio-Political Stability continues during project implementation 4. Other Key stakeholders remain committed to project implementation
1.2.1.2	1	2	1	2	Facilitate the training for faculty on new curriculum			
1.2.1.3	1	2	1	3	Host a study group (20) from the colleges to the US and Canada to learn basics of agricultural curricula and applications of instructional methods			
1.2.1.4	1	2	1	4	Prepare training report			
1.2.1.5	1	2	1	5	Monitor training programs			
1.3	1	3			Agricultural educational materials/teaching aids adopted and delivered through electronic and multi-media outlets	% of agricultural educational materials packaged through multimedia outlets and electronic % of students that are conversant with ICT platforms	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. Students are willing to learn on ICT platforms 2. There is considerable level of stability on electronic media platforms
1.3.1	1	3	1		Revised college curriculum material packaged for electronic dissemination	Number of college curricula materials packaged and disseminated by electronic means	Project reports, site visits reports, MoFA and Colleges reports	1. There is Socio-political stability stakeholder and partners are committed and continued funding 2.
1.3.1.1	1	3	1	1	Collaborate with MoFA to evaluate existing ICT platform in colleges for use of ICT methodologies			1. Donor Partners are committed and continue funding 2. Government policy decisions remains favourable and committed to the project 3. Socio-Political Stability continues during project implementation 4. Other Key stakeholders remain committed to project implementation
1.3.1.2	1	3	1	2	Provide assistance to establish platform for use of ICT methodologies and other mechanisms for continued education of current extension agents			
1.3.1.3	1	3	1	3	Liaise with ISU of MoFA for repacking of revised extension materials for electronic dissemination			
1.3.1.4	1	3	1	4	Facilitate the development and electronic posting of manuals and videos on operation, maintenance and repairs of common farm machinery and further processing machinery			
2.0	2				Capacities of AEAs, FBO's, Nucleus Farmers including NGOs developed in environmentally and gender sensitive modernized agriculture production, marketing, processing, and farm management	% of Farmers that have acquired modern skills along the agriculture value chain through FBO's, Nucleus Farmers or NGO's % of AEA's that have acquired knowledge in agribusiness, farm management and commodity value chain management	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. No major economic shift that will lead to loss of agriculture agents to other sectors outside the value chain. 2. Socio-economic and Political stability remains
2.1	2	1			AEA's trained by "trainer of trainers" in agribusiness, farm management and commodity value chain management	Number of training platforms/workshops organised by the "trainer of trainers" Number of districts that have been trained by trainer of trainers % or Number of AEA's that have been trained by "trainer of trainers" in agribusiness, farm management and commodity value chain management and AEA's that have not been trained.	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. There is socio-economic stability 2. Stakeholders remain committed to project implementation
2.1.1	2	1	1		Training materials for extension training reviewed and developed towards agribusiness, farm management and commodity value chain management	Number of extension training manuals/modules developed	Project reports, site visits reports, MoFA and Colleges reports	1. No significant changes to the existing educational policy for the agricultural colleges 2. Stakeholders remain committed to project implementation
2.1.1.1	2	1	1	1	Secondary review of extension curriculum			
2.1.1.2	2	1	1	2	Use subject matter specialist in a. Agribusiness & Value Chain b. Extension Adult Education c. Gender issues d. Extension Curriculum Specialist e. Environmental sustainable/smart agriculture specialist			1. Donor Partners are committed and continue funding 2. Government policy decisions remains favourable and committed to the project 3. Socio-Political Stability continues during project implementation 4. Other Key stakeholders remain committed to project implementation
2.1.1.3	2	1	1	3	Plan strategy and prepare evaluation instruments			

2.1.1.4	2	1	1	4	Conduct field visits and on site reviews			
2.1.1.5	2	1	1	5	Draft report on secondary review of curriculum			
2.1.1.6	2	1	1	6	Meet with Director of DAES / HRDMD and other MoFA Management to discuss draft report			
2.1.1.7	2	1	1	7	Conduct primary review assessment with selected AEAs, public and private institutions involved in extension			
2.1.1.8	2	1	1	8	Draft report on extension curriculum review			
2.1.1.9	2	1	1	9	Review by MoFA			
2.1.1.10	2	1	1	10	Prepare new curriculum for extension			
2.1.1.11	2	1	1	11	Organise dissemination workshop			
2.1.1.12	2	1	1	12	Publish new curriculum for extension			
2.1.1.13	2	1	1	13	Prepare draft extension training material			
2.1.1.14	2	1	1	14	Prepare draft extension teaching aids			
2.1.1.15	2	1	1	15	Review and approval of extension training and teaching aids by MoFA			
2.1.1.16	2	1	1	16	Publish and disseminate extension materials and teaching/training aid			
2.1.2	2	1	2		"Trainer of trainers" trained in new curriculum and training materials/aids for extension agents training	Number of "trainer of trainers" trainings conducted Number of "trainers of trainers" trained	Project reports, site visits reports, MoFA and Colleges reports	1. Socio-Political Stability 2. Stakeholders remain committed to project implementation
2.1.1.1	2	1	1	1	Facilitate the selection of trainers			
2.1.1.2	2	1	1	2	Collaborate with MoFA to train the 'trainer of trainers'			
2.1.1.3	2	1	1	3	Collaborate with MoFA to train public and private extension agents			
2.1.1.4	2	1	1	4	Prepare training report			
2.1.3	2	1	3		Regional and district subject matter specialists trained on improved educational and extension materials	Number of regional and district subject specialists trained on improved educational extension materials, commodity value chains	Project reports, site visits reports, MoFA and Colleges reports	1. There is Political Stability 2. Stakeholders remain committed to project implementation 3. Staff transfer/postings are relatively favourable
2.1.3.1	2	1	3	1	Facilitate the selection of subject matter specialists from Regional Department of Agriculture			
2.1.3.2	2	1	3	2	2. Facilitate the selection of subject matter specialists from District department of Agriculture			
2.1.3.3	2	1	3	3	3. Collaborate with MoFA to train specific subject matter for regional and district specialist			
2.1.3.4	2	1	3	4	4. Prepare training report			
2.2	2	2			Capacities of FBO leaders and Nucleus Farmers built to identify and access relevant agriculture service support to enhance farmer-to-farmer extension delivery	Proportion of FBO leaders and Nucleus Farmers that are able to identify and access relevant agriculture services. Proportion of FBOs that have been linked to other value chain actors	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. There is socio-economic stability 2. Stakeholders remain committed to project implementation 3. FBO's, Nucleus Farmers have good internal communication systems
2.2.1	2	2	1		Commodity-based FBO network leadership and Nucleus Farmers trained as trainers	Number of Commodity-based FBO network leadership & Nucleus Farmers trained as trainers	Project reports, site visits reports, MoFA and Colleges reports	1. Socio-Economic and Political Stability 2. Stakeholders remain committed to project implementation
2.2.1.1	2	2	1	1	Facilitate the selection of commodity based FBOs network leadership			
2.2.1.2	2	2	1	2	Facilitate the select of nucleus farmer			
2.2.1.3	2	2	1	3	Collaborate with MoFA to train the leadership as 'trainer of trainers'			
2.2.1.4	2	2	1	4	Prepare training report			
2.2.1.5	2	2	1	5	Facilitate the selection of commodity network leadership			
2.2.1.6	2	2	1	6	Facilitate capacity training for leadership in environmentally sustainable agriculture practices			
2.2.1.7	2	2	1	7	Prepare training report			
3	3				Graduates and students of 5 Agricultural Colleges aided by upgraded infrastructure, libraries and retooled laboratories to acquire practical farm/agribusiness, commodity value chain management skills that are sensitive to gender and environmentally sustainable agriculture.	% of graduate from agricultural colleges & institutes that meets the needs of agricultural services; % of female graduates from the Agriculture colleges Proportion of graduates that are able to setup agribusiness Proportion of graduates that put practical skills into use	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. No major economic shift that will lead to loss of graduates to other sectors outside the value chain. 2. Socio-economic and Political stability remains
3.1	3	1			Upgraded Lecture, libraries and laboratories employed to impart farm/agribusiness farm management and commodity value chain management skills	Proportion of Laboratories that are functional Proportion of Libraries that are functional Proportion of rehabilitated lecture halls in use. Time spent at a retooled facility (ICT and Science Laboratory)	Project evaluation report; mid year evaluation report, Agricultural Colleges reports, MoFA Reports	1. There is socio-economic stability 2. Stakeholders remain committed to project implementation
3.1.1	3	1	1		Lecture halls, libraries and laboratories rehabilitated, upgraded and retooled in 5 Agriculture Colleges to accommodate and support practical farm/agribusiness training and gender sensitive agriculture practices.	Number of Rehabilitation works done at colleges Number of Laboratories/Libraries retooled Colleges Number of ICT equipment provided at the colleges	Project reports, site visits reports, MoFA and Colleges reports	1. There is Socio-Political Stability 2. Stakeholders remain committed to project implementation

3.1.1.1	3	I	I	1	Collaborate with MoFA to assess; a. Rehabilitation and Upgrade works required at all five (5) colleges – lecture halls, laboratories and libraries; b. ICT infrastructure/equipment needs all agriculture colleges; c. Assess needs for basic resources such as dependable electric power, water supplies, field machinery and livestock supplies that are also safe d. Prepare draft assessment report			1. Donor Partners are committed and continue funding 2. Government policy decisions remains favourable and committed to the project 3. Socio-Political Stability continues during project implementation 4. Other Key stakeholders remain committed to project implementation
3.1.1.2	3	I	I	2	Review by MoFA			
3.1.1.3	3	I	I	3	MoFA prepares rehabilitation estimates, tender documents and budget for rehabilitation works, rehabilitation works at colleges' laboratories and libraries			
3.1.1.4	3	I	I	4	MoFA reviews and Approves of estimates, tender documents and budget for rehabilitation works			
3.1.1.5	3	I	I	5	Collaborate with MoFA to prepare procurement notices (in print media and on MoFA and Project websites)			
3.1.1.6	3	I	I	6	Sale of tender documents by MoFA procurement unit			
3.1.1.7	3	I	I	7	Evaluation of tender documents led by MoFA			
3.1.1.8	3	I	I	8	Award of contract			
3.1.1.9	3	I	I	9	Collaborate with to manage contracts			
3.1.1.10	3	I	I	10	Monitor project sites			
3.1.1.11	3	I	I	11	Collaborate with procurement unit of MoFA to procure Laptops for faculty			
3.1.1.12	3	I	I	12	Collaborate with procurement unit of MoFA to procure Tablets (modem connectivity) for colleges			
3.1.1.13	3	I	I	13	Collaborate with procurement unit of MoFA to procure Equipment / supplies for colleges			
3.1.1.14	3	I	I	14	Install and handover equipment to user agriculture colleges			
3.1.1.15	3	I	I	15	Monitor and audit equipment and supplies to agriculture colleges			