FY 2017 PCAARRD LIST OF GRANTS-IN-AID PROGRAMS/PROJECTS

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
											734,134,395
Application of Genomic Information in Dairy Buffalo Breeding Program	Genotyping the Philippine Water Buffaloes Using Medium Density 90K Buffalo SNP panel	Rapid, inclusive and sustained economic growth	The proposed R&D project aims to improve milk production efficiency and rate of genetic pin of the Philippine dairy buffalces through the use of genomic information in breeding and selection.	1900 buffulnes samples, 900 buffulnes generaped using 800 KMP gamel; local hiererie spoulation in former, Eight 80, public somitated, before for bereding based on EUP breefing values and genotype information on the significant SNP markers, model for estimating genomic breefing values or daminabili in the information unclosed is derived, 8 young bild normalized/selected for breeding based on BLUP breefing values and genomic breeding values	PCC, CMU	PCC nucleus and multiplier farms Local dairy buffalo industry in general Researchers from the industry and academe	01-Feb-15	31-Jul-18	ONGOING	23,301,755	2,875,633
Assessing the Status of Giant Clams and Advancing Culture Techniques	Project 1. Evaluating the status of giant clams in Luzon and Visayas	Rapid, inclusive and sustained economic growth	The main of elections of the project are to neument be status of jaint dam restocking efforts, especially on replimabing both stocks, and assess the adaptation of reseeded and naturally occurring giant clams to environmental changes. The specific objectives are to c. 1 Survey glant clam recruitment in selected restocking pites 2. Assess glant clam bothwestly in selected stees in selected Philippine biggographic regions differentially impacted by disable composition of will and restocked glant clams in selected stees in selected Philippine biggographic regions differentially impacted by disable composition of will and restocked glant clams in selected stees of the same the accountflowed composition of will and restocked glant clams in selected biographic regions. 4. Conduct information dissemination activity to countal communities and other stableholders.	Philippine biogeographic regions differentially impacted by climate change induced thermal stress 2) Status of giant clams especially on giant clam recruitment 3) Zooxanthellae clades in Tridacna	JPO	Load communities including the boal government units (LGIs) that will be involved in the monitoring and conversation efforts. The results of the proposed project will be disseminated through information, descharan and communication (ICI) materials to help promote giant claim restockies, monitoring and conservation efforts to relevant costata circumunities and government agencies. Conservant of the control of the cont	15-Nov-17	14-Nov-20	NEW	19,161,341	3,446,333
Assessing the Status of Giant Clams and Advancing Culture Techniques	Project 2. Evaluating the status of giant clams in Palawan	Rapid, inclusive and sustained connections of the connection of th	The main of objectives of the project are to examine the status of glaint claim restoding efforts, especially on replembing local tools, and assess the adaptation of preseded and naturally occurring giant claims to environmental changes. The specific objectives are for 1. Survey of glant claim recruitment in selected restocking sites 2. Assess goant claim biodiversity in selected differs in Pallawain 3. Conduct information dissemination activity to coast communities and other stableholders.	Philippine biogeographic regions differentially impacted by dimate change induced thermal stress (in connection with project 1) 2) Status of glant clasm especially on glant clasm recruitment 3) information, Education, and Communication (IEC) materials distributed and biodiversity and	WPU	1. Local communities including the local government units (IGIOs) that will be involved in the monitoring and conservation efforts. The results of the proposed project will be disseminated through information, education and communication (ICI) waterwish to help promote giant claim restocking, monitoring and conservation of the conservation of t	15-Nov-17	14-Nov-20	NEW	3,803,277	900,543

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Assessing the Status of Giant Clams and Advancing Culture Techniques Assessing the Status of Giant Clams and Advancing Culture Techniques	Project 3. Evaluating the status of giant clams in Mindanac		The main of objectives of the project are to examine the status of giant clam restocting efforts, especially on regimelating local stocks, and assess the adaptation of reseeded and naturally occurring giant clams to the project all tooks, and assess the subgration of reseeded and naturally occurring giant clams to the specific objectives are to 1. Survey giant clams to the project in the specific objectives are to 1. Survey giant clams recruitment is abscered restocking giant. Assess giant clam bodiversity is selected steen in Mindanuo 3. Conduct information dissemination activity to coastal communities and other stakeholders. The specific objectives are to 1. Survey giant clams, to enhance giant clams are stocking and conservation of the communities of the specific objectives of the project are so follows: 1. Develop transcriptions sequence resources for two (2) species of giant clams (resource) giant clams representing affected phonogens. 3. Identify genes for giant clams development, growth, symbiosis, biomineralization, and stress response.	End of the project deliverables/outputs 1] Biodiversity of glant claims in selected sites in three sites in Medicators defliverables/outputs 1] Biodiversity of glant claims in selected sites in three sites in Medicators defliverables/included by claims etchange induced thermal stress (in connection with a conformation of the Claim and Communication (Claim derivation of Communication) (Claim derivation of Communication) (Claim derivation of Claim and Communication) and claims and communication (Claim derivation of Claim expetites and press releases about project astractives and outputs) 5 Training workshop to biodiversity aware of themsel stress impact assectioners and information discernisation activity (at least one et each of the three sites) to created communicy (biodiversity 5) Training workshop to biodiversity waters of the count of	DNSC	1. Local communities including the local government units (LGUs) that will be involved in the monitoring and conservation efforts, the property of the property of the property of the conservation efforts, and control of the property of t	15-Nov-17	14-Nov-20		6,653,102	1,167,043
BOOSTING THE SUGARCANE INDUSTRY THROUGH	Project 3, Development of Nanofertilizers for Sugarcane	David	Make sugarcane production more profitable as nanofertilizers could enhance the efficiency of nutrient	Nanofertilizer formulations containing N, P, K, and a combination of N, P, and K (complete)	UPLR	Sugarcane farmers, researchers, students, entrepreneurs	01 1-1 14	31-Dec-17	ONCOINC	7,694,428	819,035
BOOSTING THE SUGARCANE INDUSTRY THROUGH SMART FARMING TECHNIQUES	Project 3. Development of Nanofertilizers for Sugarcane Production	Rapid, inclusive and sustained economic growth	Make sugarcare production more profitable as nandefilitiess could enhance the efficiency of nutrient absorption and resistance to pests and disease.	Nanoterbilizer formulations containing N, Pr., And a combination of N, P. and K. (complete) Optimized procedure in the formulation of rainoferbilizers for suggrante Appropriate method and rate of application of the developed nanoferbilizers Quantified economic benefits of using the nanoferbilizers technology An intellectual property (PI) from the results of the project A scientific publishino on the results of the research project	urts	Jaugersame ramers, researchers, students, entrepreneurs	U1-JUI-14	31-Dec-17	UNGUING	7,694,428	819,035
Cacao Pest Management Program: Biological-Based Approaches	Project 1. Extraction and Evaluation of Pheromones and Karromones as Potential Monitoring and Managing Tool Against Cacao Insect Pests: Pod Borer and Mind Bug	Rapid, inclusive and sustained economic growth	1. To extext and identify the see phenomene from CRB and CMB and sharomone from cace ped 2. To purify and warbers see phenomene and suiromone compositions. 3. To evaluate the biological activity of see phenomene and lairomone on CRB and CMB in the laboratory 4. To develop phenomene fures and traps from field testing of see phenomene and lairomones in catching CRB and CMB.	Debelog affective composition and formulation of say photomore and salations for monitoring and managing CEB and AMB Blass production for sufficient any element composition of supplied and supplied composition of supplied and supplied composition of supplied supplied possible production and supplied	DLSU	he biologically discret fifth for pages to the developed by this proposed program will be given 80 Me. Biologically discrete for the discrete firmers practice of deminical control and sleeving. Chemical Control commands high management input ranification of the control commands high management input ranification of the control comment from the firmers. Additionally, it is not environment friendly. Serving is a good attended to lower land the control expectably for more time consuming because cloat trees continuous to produce pods practically everyday when it reached reproductive stage. Currently, not all farmers use sleeving because of time constraint and the cost of the plasts; in this proposed and the cost of the plasts cleever. Chemical corror and sleeving view of the plasts in this proposed by the plant of the plasts. In this proposed by the plant of the plasts, in this proposed program will make caccol formers and agricultural stechnicism more technically efficient. Farmers will generate more taxt will be produced unity this proposed program will make caccol formers and agricultural stechnicals more technically efficient. Farmers will generate more taxt will be produced upon the plant of th	01-Feb-16	31-Jan-18	ONGOING	3,277,015	1,103,611

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Cacao Pest Management Program: Biological-Based Approaches	Project 2. Exploration, Identification, Mass Rearing and Field Belease of the biological Control Agents Against Cacao Pod Borer and Cacao Mirid Bug	Rapid, inclusive and sustained economic growth	1. To survey biological control agents with direct association with CPB and CMB. To retrieve the case pool bore reg gas parties frichipparmantale on equality and the entonogathogens Beauviral bassians previously found infecting cazon mind beg in Luzon 3.15 test the efficiency of the biological control agents with confirmed association with case pool borer and mired bug. All wheelings are considered to the selected efficient biological control agents. 3. To develop efficient release strategy for the mass reared biological control agents.	Is identify and record potential biological control agents of 0°P8 and CMB® II Confirmation of biological control agents for mass production. Delivering filed release stategy and distribution method for mass reared biological control agents II Develop float release stategy and distribution method for mass reared biological control loading logical control floating. If Primary investment floating method is confirmed to the production of the primary investment of the primary investment of the primary investment in primary investment of the primary investment in primary investment on poort quality can be best for for and inflammation of markets? Observe well be discussessed in the form of reports, extension materials, and journal exists.	DISU	The Biologicalin-Biassed Wilf programs to the developed by this proposed program will target 80.0% (Biological) representation of the developed programs and the existing firmers practice of chemical control and sleeving. Chemical Control commands high management in just translated to lower located commands with management in just translated to lower located programs. Additionally, it is not environment friendly, programs and the control of the proposition of the commands and the control of the proposition will be produced programs and product here target. Currently, not all farmers use sleeving because of time constraint and the cost of the places (levels, Demands or the control and sleeving are not for long term control of the pasts, in this proposed and the cost of the places (levels, Demands (levels, Demands or the proposed programs will make cancel formers and agricultural technicisms more technically efficient. Farmers will generate more iscone using the bodiesplach based Mil Proposition. Classo beams that will be produced using this system will be of good quality and their discovers and the highly competitive in the international market.	01-Feb-16	31-Jan-18	ONGOING	3,292,503	1,199,579
Cacao Pest Management Program: Biological-Based Approaches	Project 3. Biological Control and Development of Nano- BioSensor for Fungal Diseases of Cacao	Rapid, inclusive and sustained economic growth	To develop a Biological-based Prest Management Program for the control of the major invest perts and deleated of caron, numerly cacin poli bover, cacin mind folgs cace poli ord, and vessels is tracked sized to 1.5 of Gerelop molerning and managing tool papiers insert sets of cace using pheromone and laaronner traps 2. To mass produce efficiently biological control agents of insert perts and diseases of Laconfor incudative release in cace forms. To establish biosomers yeten for early detection of visualization of the control and cace of minimal treates in cace forms. To establish biosomers yeten for early detection of visualization of the control perts attacking caceo pods.	In Decrine the lockation, destriblication, possible mode of action, and evaluation of mycoparasitic includes of bacteria and farging with posterial for biological control of VSD and BFR. It Available manchio-sersory system for early detection and regard sepones to manage the ideases B Pinnary instrument opportunity in the commercialization and marketing of Diological control agents 8 increases the country's competitiveness on good quality cacao beans for local and international markets	UPLB, PhilMech	The biologically Brased PMA presents the diveloped by this proposed program will step 88.09% elitible compared to the existing farmers practice of beneficial control and sleening. Chemical Control commands folly bin management injury translated to lower income for the farmers. Additionally, it is not environment friendly. Seewing is a good attended to other pass attacking cacao posts, however it is very laborious and even more time consuming because excent teres continuous to produce posts attacking cacao posts, however it is very laborious and even more time consuming because excent teres continuous to produce posts practically everyday when it reached reproductive stage. Currently, and if ammens us developed period or three constraints are not for long term control of the gests. In this proposed program, all control research to the environment. Additionally, this proposed program will make cacao formers and agricultural technicians more extensible efficient. Service will be recommended to the environment will generate more income using the biologically based and the good quality and disented to the legisly competitive in the international market."	01-Apr-16	31-Mar-18	ONGOING	4,794,882	1,493,561
Cacao Pest Management Program: Biological-Based Approaches	Project 4. Particle Film Technology as Coating Agent and Carrier of Mycoparasites for the Control of Insect Pests an Diseases Attacking Cacao Pods	Rapid, d Inclusive and sustained economic growth	To utilize efficiently naturally occurring particle fifth materials as biocosting agents to control pests attacking case pock	Electrication of their Lony and rich system of special recitions as biocounting agent against perists and long access both in the electrical biocologies agent the general regiment and statistical caces point if bioexperient of inflicient biocologies general size from distriction coverage for a fewer application schedules in Firminal interesters desponding agents with length most factor occurred from the contract and marketing of the selected biocologies general bit Training of farmers and agricultural terchinicals on of field application and improve a service must libraries and improve a competitiveness on good quality caces been for food and international markets it Output will be documented in the form of reports, estension materials, and journal articles:	DLSU	The Bloogically-Bassed IPM program to be developed by this proposed program with target 00-50% efficiency companies. On the proposed program with target 00-50% efficiency companies. Chemical Control Commands high management input translated to lower control commands high management input translated to lower income for the farmers. Additionally, it is not environment friendly, Serving is ago and translate to othermical control specially for persis attacking cases pool, however it is very laborious and even pools practically everyly when it received proportical testing. Currently, not all farmers use sleening because of time constraint and the cost of the plasts is deves. Chemical correct land the cost of the plasts is deves. Chemical correct land the cost of the plasts is deves. Chemical correct land the cost of the plast is developed are bodigically and with on origitive impact to the environment. Additionally, this proposed program will make caso formers and agricultural technicisms more technically efficient. Farmers will generate more income using the biologically-based IPM program. Caso bears that will be produced using this system will be of good quality and their driver will be resident in the international market.	01-Feb-16	31-Jan-18	ONGOING	3,702,285	1,403,242
Changing Patterns of Social, Demographic and Economi Conditions of Farmers in Selected Agricultural Production Systems	Project 1. Changing patterns in social, demographic and economic conditions of farmers in rice productors: implications for Agricultural Policies and Innovation	Transparent, accountable, and participatory governance	General Disjective. Analyze the changes in the social, demographic and economic characteristics of farmers in selected agricultural production system for more referent and effective agricultural production approach and effective agricultural production approach of the selected agricultural removation programs. Separation of the selected agricultural removation program of the selected agricultural production system; 2. determine the technology used by farmers in the selected agricultural production system; 3. analyze the parties of changes in social, demographic and a 3. analyze the parties of changes in social, demographic and 4. artisles the social, demographic and seconomic characteristics, with the farmers' schenology adoption behavior; and 5. provide specific recommendations for improved agricultural policies and agricultural immovation program.	Abilitation 118 journals/policy hard (at least 1; publication per commondly) 8 804 highlighting the social demographic and economic conditions of farmers in selected agricultural production. Flasts and partnerships: 8 brateship with key government agencies (e.g., NEDA, 8, MAR, OA, DOST des Dobbil) and local government units. B Partnership with POs and 890s. Policy: 8 Policy forum for advocacy initiative 8 Policy recommendations in relation to agricultural invocations and policy. Product TO Bubbales on social, economic and demographic characteristics of families with the production of the production of the production of the product of the production systems. People: 8 Improvement of welfare of Filipho farmers and other rural stakeholders.	UPLB	Bleearchers and extension vortices Bleearch manager and funding and monitoring agencies Brolley and decision makers Brolley and d	01-Nov-17	30-Apr-19	NEW	5,752,154	4,446,436

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Changing Patterns of Social, Demographic and Economic Conditions of Farmers in Selected Agricultural Production Systems	Project 2. Changing Patterns in Social, Demographic and Economic Conditions of Farmers in Corn and Vegetable Production: Implications for Agricultural Policies and Innovation	Transparent, accountable, and participatory governance	General Objective: Analyze the changes in the social, demographic and economic characteristics of larmers in selected agroutural production system for more relevant and effective agricultural policies and system for more relevant and effective agricultural policies and system for more relevant and effective agricultural policies and system for the selected and economic profile of farmers in selected agricultural production system; 2. Lestablish the social demographic and economic profile of farmers in selected agricultural production system; 2. Lestablish the social objective system in the selected agricultural production system; 3. Lestablish the social of changes in social, demographic and economic characteristics of the farmers; 4. Testite the social demographic and economic system of the system	Published to 19 Signarshipolicy berief (et least 1 published to per commodity) 3 Book highlighting the sock demographs and economic conditions of farmers in selected agricultural production of farmers in selected agricultural production system Places and partnerships: 8 Partnership with levy government agencies (e.g., NEDA, 0,00,007 and 0,000	UPLB	8 Researchers and extension vorders 8 Research managers and funding and monitoring agencies 8 Yorky and decision makers 8 Coverment inclusions and research agencies 9 Coverment various 9 Coverment various 10 Cover government various 10 Cover government various	01-Nov-17	30-Apr-1	9 NEW	4,096,154	3,088,436
Changing Patterns of Social, Demographic and Economic Conditions of Farmers in Selected Agricultural Production Systems	Project 3. Changing Patterns in Social, Demographic and Economic Conditions of Farmers in Plantation Crops Production: Implications for Agricultural Policies and Innovation	Transparent, accountable, and participatory governance	General Objective: Analyze the changes in the social, demographic and economic characteristics of farmers in selected agricultural production system for more relevant and efficitive agricultural policies and appropriate agricultural immovation programs. Sepecit Citigatives: Control Citigatives: - Control Citigatives:	Publishers TILS journal/policy berif set less 11 publishers TILS policy and commonly 3 Book inspite plant plant per commoting 18 Book inspite plant per set of the common of farmers in selected agricultural production system Flates and partnerships: 35 Partnership with key government agencies (e.g., NEDA, DaMA, DA, DOST and DRBS) and floors government uses: 8 Partnership with POs and RBG. 9 Policy SPOINT for an and RBG. 9 Policy SPOINT for an analysis initiatives 8 Policy recommendations in relation to agricultural invocations and policies Product: 3 Database on social, economic and demographic characteristics of farmers in different production systems Progress: 8 Improvement of welfare of Filiphin farmers and other rural stakeholders.	UPLB	Research made chemicin workers Research managem and funding and monitoring agencies Folky and decktion makers Rowerman funding and experience Rowerman funditions and research agencies Rowerman funditions and funditions are funditions and funditions and funditions are funditions and funditions are funditions are funditions and funditions are funditions are funditions are funditions and funditions are funditions are funditions are funditions and funditions are fundin	01-Nov-17	30-Apr-1	9 NEW	6,195,886	4,772,036
Changing Patterns of Social, Demographic and Economic Conditions of Farmers in Selected Agricultural Production Systems	Project 4. Changing patterns in social, demographic and economic conditions of farmers in aquaculture and fishery: implications for Agricultural Policies and Innovation	Transparent, accountable, and participatory governance	General Objective: Analyze the changes in the social, demographic and economic characteristics of farmers in selected agricultural production system for more relevant and efficients agricultural policies and appropriate agricultural immosation programs. Speciet Coliginative: General Coliginative: Carlotteristics of the Section of Coliginative Coligina	Publishers TILS journal/policy brief fall least 1; publishers TILS policy and commonly 3 Book integriting the social demographs and economic conditions of farmers in selected agricultural production system Flaces and partnerships. 3P partnership with key government agencies (e.g., NEDA, 0846, 201, 0027 and 0548) and 160. Partnership with POs and 160. Policy 2P Solicy forum for advocacy initiatives 8 Policy recommendations in relation to agricultural invocations and policy. Product: 8 Database on social, economic and demographic characteristics of farmers in different production systems Pacing: 18 Improvement of welfare of Filipino farmers and other rural stakeholders.	UPV	Research manage and funding and monitoring agencies Prolicy and decklion makes Rower and decklion makes Rower and continuous and research agencies Rowerment funditions and research agencies Rowerment runtion Rammers and other nural stakeholders	01-Nov-17	30-Apr-1	9 NEW	4,859,653	3,713,436
Changing Patterns of Social, Demographic and Economic Conditions of Famers in Selected Agricultural Production Systems	Project S. Changing Patterns in Social, Demographic and Economic Conditions of Farmers in Livestock and Forestry: Implications for Agricultural Policies and Innovation	Transparent, accountable, and participatory governance	General Objective: Analyze the changes in the social, demographic and economic characteristics of farmers in selected agricultural production system for more relevant and effective agricultural policies and appropriate agricultural immosation programs. Speciet Colliperices: Colliperices: Colliperices: Colliperices: Colleptices: Colliperices: Colleptices:	Publishers 11.5 (journal/policy herif sit less 11 publishers per commodity) 18 oblightighting the social demographs and economic conditions of farmers in selected agricultural production system Flates and partnerships: 8 Partnership with key government agencies (e.g., NEDA, 50, 1984, O.A.) 0.0076 and 0.0081 per document uses: 8 Partnership with POs and RBOs Flattership with POs and RBOs Florities The Policy forum for aboocusy initiatives 8 Policy recommendations in relation to agricultural invocations and policy initiatives 8 Policy recommendations in relation to agricultural invocations and policy forum for aboocuse of the products and demographic characteristics of farmers in different production systems Product: 8 Database on social, economic and demographic characteristics of farmers in different production systems	UPLB	Researchmange and funding and monitoring agencies Relearch manages and funding and monitoring agencies Relearch manages and funding and monitoring agencies Relearch manages Rele	01-Nov-17	30-Apr-1	9 NEW	4,096,153	3,088,436
Citrus Resources Research for Development in Cagayan Valley (CRR4DCV)	Project 1. Value Chain Analysis for Citrus in Cagayan Valley	Poverty reduction and empowerment of the poor and vulnerable	denier all he study aims to analyze the citrus value chain and suggest areas of interventions to upgrade the chain. The study aims to analyze the citrus of the industry that include value chain mapping, description of lay players and their functions, nature of interfirm relationships, market and market opportunities, and price and cost structures; 2. To identify the support services, reading environment such as formal rules and englishions, sociol curvair norms and behavior in the industry. 3. To determine constraints and opportunities; and 4. To recommend SAT interventions and policy reforms for addressing apps/constraints.	2.7 Walse chain map of selected crins commodities 28. Key players and their functions 29. Market and price and cost structure 30. Constraints and opportunities of the selected commodities 31. SST and policy recommendations to enhance the crins industry in the region	NVSU	Circu Covers in Nucra Viczup and Cigypts Volley 2. Traders, processors and input providers 3. Researchers/ Reeders 4. Nessery owners/ operators 5. Agricultural Technicians 6. R&D planners, researchers, policy makes	16-Nov-16	i 30-Apr-1	8 ONGOING	2,256,048	1,021,499
Citrus Resources Research for Development in Cagayan Valley (CRRADCV)	Project 2. Genebank and Database Profile of Citrus Genetic Resources	Poverty reduction and empowerment of the poor and vulnerable	General The aim of the project is to conserve and document circus cultivars and available local offuso genetic resources for the purpose of Preventile, research and utilization in the Philippines. Specific 1. To collect, characteric, identify, evaluate and conserve circus genetic resources/germplasm throughout the county repeatiley promising accessions for breefile, present and utilization; 2. To develop a database profile of circus cultivars and germplasm with standard descriptions and produce DNA (regional resources) and produce DNA (regional resources) are conserved bytem for manager all standard descriptions and resources resources system for manager all standard on the historial Plant General Resources Laboratory, NVGRU documentation systems, and capability building by oppositing residenger generals no PRG conservation and management, computer and information systems; and 5. To develop and produce/reproduce Information, Education and Communication (EC) materials on circus genetic resources.	per species collected in twenty law (22) species while 5-15 scessions collected for each of the remaining rine (6) pitcus species averaging 10-18 Accessions 2. A less three (8) mother trees grown, and materianel/conserved in large earther post for each distinct germipsion for an averaging 4402 mother trees materiale and the genebank; assessing 4402 mother trees materiale and the genebank; 3. Motocular fingerprints of a less the (5) for each nather and backyard cultivars and local circus (cellections, 4. A absolute a great fine) and the special special control of the collections of the special special special collections.	NVSU	L. Cinus Corwers in Nurea Victory and Capyan Valley 2. Traders, processors and input providers 2. Research/Reveders 4. Nursery owners/operators 5. Agricultural Technicians 6. R&D planners, researchers, policy makers	16-Nov-16	15-Nov-1	9 ONGOING	11,863,916	1,380,629

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Citrus Resources Research for Development in Cagayan Valley (CRR4DCV)	Project 3. Establishment of Quality Planting Materials Production System for Citrus in Nueva Vizcaya	Poverty reduction and empowerment of the poor and vulnerable	General To establish and implement a quality plainting materials production system for citrus in Nava- Victora, Specific 1. To enhance the foundation/budwood increase block of NSSU and numeries of the university and MAGRO, Raship for the production of Hall and CTV-free plainting materials; 2. To increase seeding by MAGRO, The Company of the Company from 1000 to at least 2,000/pen; 3. To index 200 monther trees in NSSU and in other production sense to 4.8 and CTV, 4. To develop a web based made from geotagoing of citrum morbiter trees in Hall and CTV, 4. To develop a web based made from geotagoing of citrum morbiter trees in Hall and CTV, 4. To develop a web based made material production, paging prographism chirality, and effective numery management, 6. To establish a techno-demo farm that will utilize NSU disease-free planting materials, and provide assistance for an existing citrus control on management of presist and disease and improved production technologies, and 7. In publish a least one I) write in a referred and improved production technologies.	1.4. A model system for production of quality planting materials of citiss 2. Improved one (1) foundation and busined colineces beloss and well cyli chris nurser's 1. Increased seeding production of NVSU (from 1,000/lyers to at least 7,000/lyers) and of the Municipal Agriculture managery (from 1001 to at least 2,000/lyers 1/20 indexed citizs under the reise in the NVSU (reset. S. Devision of the citizs of the seed of the 100 seed of the other trees in the NVSU (reset. S. Devision of the citizs of the 100 seed of the 100	NVSU	Chris Growen in Nueva Vitzeya and Capyan Valley 2. Traders, processors and input providers 3. Reservative Renders 4. Nursery owners/operators 5. Agricultural Technicians 6. R&D planners, researchers, polity makers	16-Nov-16	15-Nov-19 (ONGOING	7,851,442	1,032,587
Citrus Resources Research for Development in Cagayan Valley (CRR4DCV)	Project 4. Development of Pests and Diseases Managemen Systems for Sustainable Citrus Production in the Philippines	t Poverty reduction and empowerment of the poor and vulnerable	General The project aims to devolop pet and disease management systems for sustainable cirrus ordication in Cagasar Valley. Specific 1. To establish current incidence and severity of major diseases and population dynamics of vector and major interpret, 2. To elever pay a system for monitoring and forecasting final prajor insect pests and disease; 3. To verify and modify current practices for control and management of major insect pests and disease; 3. To verify and modify current practices for control and management of major insect pests and disease; 4. To verify and modify current practices for control and management strategies for major pests and diseases and a Sustainable control and management strategies for major pests and diseases which can increase yield by 20-30%.	Lobus on current disease providence of leg. H. Ha, CTV et al. 2. Proplation dynamics of the Asian cursus pulled, abid by Document with description of local circum disease and insice petal. 4. One (1) integrated and systematic paying schedule to control major pests and diseases of circum 5. At least seven? () control strategies employing Plan and 10th techniques. 6. At least seven? () Provincian think of predictions that plannessing the best control stacks identified 5. Seven (7) verification think of refementations that harmessing the best control stacks identified 5. Seven (7) werification that of cerebronistation trials combined with good agricultural management practices as well as IPM and Old strategies. 9.4 Less the (6) organic based biopesticides 10. Four (4) pilot testing showcasing the most effective organic-based biopesticides	NVSU	Chrus Growers in Nurva Viczoya and Capsyan Valley, 2 Traders, processors and injury providers 3. Research? Breeders 4. Nursery owners/Operators 5. Agricultural Technicians 6. R&D planners, researchers, policy makers	16-Nov-16	15-Nov-19 (ONGOING	9,506,255	1,424,240
Citrus Resources Research for Development in Cagayan Valley (CRR4DCV)	Project 5: Development and Verification of Soil and Water Management Strategies for Citrus	Rapid, inclusive and sustained economic growth	The overall goal of the project is to develop and fine-turn esciencebased organic and imaginar efficitization rates for fruit, with combined optimum implation rates for the different fruit development stages of bearing critiu under heave sturcaps conditions. Specifically, the project aims to accomplish the following: a. Determine present oils and implation-related practices in citrus farms; b. Determine optimum inorganic and organic fertilizer rates for flusting citrus trees; c. Determine optimum inorganic and organic fertilizer rates for flusting citrus trees; c. Determine optimum inorganic and organic fertilizer rates for flusting citrus trees; c. Determine optimum inorganic and organic restilizer rates for flusting citrus trees; c. Determine optimum inorganic and organic rates of the first universities and implaction rates determined from the	1. Optimized fruit production through application of technology on the proper and appropriate calusual management on pruning, deteoping, flower and fruit thinning of duriun for optimum production of quality durius fruits for domests and export market, as well as on height and fruiting branches; 2. Increased yield and improvement of durius fruit quality; 3. Optimum fertilizer recommendation for durius based on leaf analysis validated and verified; 4. GiG-saided suitability maps for durius in Davao and Cotabato Provinces; and 5. Extended harvesting season by two months.	NVSU	L. Commercial durian growes S-mail scale durin famers Farm Contractors A-Farm Contractors Research institutions Researches CLGUs Planners	01-Nov-17	31-Oct-20 f	NEW	4,999,322	2,404,273
Coastal Acidification: How it Affects the Marine Environment and Reosurces in the Philippines	Project 1: Spatio-temporal trends in pH, CO2, and related parameters	Integrity of the environment and climate change adaptation and mitigation	The objectives of the project are: (1) To define the pasto emporal variation of carbonate and other environmental parameters in the study office. Lottermine pit, pCO2, total alkalinity, aragonite saturation rates in sixes across space and seasons (wet and only syning and rosp, duranil to other haseline information on carbonate parameters. I. Determine and only syning and rosp, duranil to other haseline information on carbonate parameters. I. Determine grants called and trained synamics affect the carbonate parameters. I. Map out seasons region and aragonite saturation state of Philippine waters using existing data and from additional sampling in rest sites in the country. No molorize chandrates of existing data and from additional sampling in rest sites in the country. No molorize disposition, the conformation of marker againstine state of the project of the country of the conformation of th	Publications 4 108 publications > Primer on coastal/cone acidification for the general public products. *Map of pit of Philippies waters. *Map of aragenites statustion for Philippies waters. People & Services + 3 Graduate student research supported for of the project First of Jedevelae/lev-Journal 51 Spation-temporal variation in carbonate parameters (pit, 2021, total aliabilities), aregaints sharination retals) in the study size (Boltinaco, and other parameters (pit, 2021, total aliabilities), aregaints sharination retals) in the study as the study of the parameters (pit, 2021, total aliabilities), calification, explained publication, sedimentation) the marine organisms are exposed to 4) Historical information on the relationship between coal growth and changes in environmental conditions in the sites. Year 1 deleverables/ordputs 1) Spatial and temporal (vert and dry, spring and neap, diurnal) variation in carbonate and other parameters (e.g., uninetes, oppinic calbool) in the study sites and other parameters and other parameters (e.g., uninetes, oppinic calbool) in the study sites and other parameters are monitored in the experimental strapp of Projects 2 and 3 Year 2 deleverables/ordputs 1) Carbonate and other parameters determined in 3 other reef sites in the country 2) Second set of cord cores ordpained 3 Cores cut, reyale and extension rates measured; selected cores used for density measurements). Selected cores subjected to XII Year 3 deleverables/ordputs 1) Curbonate and other parameters determined in 3 other reef sites stranging and 2 and Corpsis with 5 Carbonate and other parameters are monitored in the Vara 3 deleverables/ordputs 1) Curbonate and other parameters underwriters are exposed to 4) Historical information on the relationship between coral growth and changes in environmental conditions in the sites	UPD	Target beneficiaries are local and national government offices concerned with cortes and the committees that depend on them. Other beneficiaries are resource planners, local state codeges and universities wide can be trained to monitor changes in pit, cardonale and other relevant parameters.	15-Nov-17	14-Nov-20 I	NEW	18,251,855	4,928,249
Coastal Acidification: How it Affects the Marine Environment and Reosurces in the Philippines	Project 2: Impacts of acidification on the base of the matine food web and their effects on marine production	Integrity of the environment and climate change adaptation and mitigation	The main objective of this project would be to determine the potential cascading effects of shifts in ocean demixtry on the maine food wed various tropic levels. Specifically, the project since it. 2. Determine the effects of ocean chemistry shifts on the biomass and structure of the base of the food wed photypolasheoly and intermediate consumer; loopplantfoot; 2. Understand the potential link between effects of ocean chemistry shifts on lower tropic levels and food with dynamics to be Visitheries; and 3. Develop methods for rapid assessments of marine trophic levels through molecular biotechnology, and imaging and optical approaches.	Executed Octobus (By 6 Ph) Politications - 1 (S) publications recycle & Services - Formal Tainings 1 Student Standard Interactive Control and Student Student Interactive Control Student Student Interactive Control Control Student Student Interactive Control Cont	UPD	Fatheries managers, Resource planners, local and global scientists	15-Nov-17	14-Nov-20 f	NEW	23,559,779	1,760,422

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Coastal Acidification: How it Affects the Marine Environment and Reosurces in the Philippines	Project 3: Possible influence of acidification on specific reel resources	Integrity of the emvironment and climate change adaptation and mitigation	The objectives of this project are to 1. Determine the response of coral reef-associated calcium carbonate producing marcinages to decreased pil and associated stressors. A Community composition in relation to environmental parameters b. Phylosobjecial effects of specific stressors on selected macroalgee 2. Determine response of coral reef associated bothlim community to objective to decreased pil and associated stressors. a Effect of environment on bothlim community composition b. Effect of marine bothlim community on self-termine of larveer of selected declining organism (e.g., sea arching), provides and community on self-termine of larveer of selected declining organism (e.g., sea arching), provides, and sunivial of selected reef organisms. a Effect of variable environments on giant claim growth and physiology b. Effect of variable environments on giant claim growth and physiology of the community of the com	Espected Outputs (8y 6 Ps) Publications * 151 publications Products * Knowledge/Information on ink between entrophication (e.g. from marculture) and acidification * Knowledge/Information on ink between entrophication (e.g. from marculture) and acidification * Knowledge/Information on entrophication (e.g. from marculture) and excidination * Knowledge/Information on primary producers and plantion biomass and community within under changing environmental conditions. * Knowledge/Information on primary producers and plantion biomass and community within under changing environmental conditions. * Knowledge/Information on primary producers and plantion biomass and community within under changing environmental conditions. * Knowledge/Information on gene markets that are inlained to stree response of spongers * State * Knowledge/Information on gene markets that are inlained to street response of spongers * State * Knowledge/Information on gene markets * Formati Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent research supported * Information Training & G. Gradulant subsent subse	UPD	Conservation biologists, Fisherier resource managers, finiteromentalists, Ecologists, Ecotoxicologists	15-Nov-17	14-Nov-20	NEW	24,816,356	4,787,466
Coastal Acidification: How It Affects the Marine Environment and Reosurces in the Philippines	Project 4: Acidification impacts on the demography of corals (ACID Corals)	Integrity of the environment and climate change adaptation and mitigation	The proposed project has the following objectives: 1. Quantify the effects of acidification on the abundance, size-structure of select coral species and communities. 2. To project thate impacts of ocean acidification on coral communities at a wider scale (based on various contents to be defined along with the other components of this proposed neearch program) and likely consequences of these impacts on local communities.	Publications * 1 ISI publication Products * 1 simulation model with several scenarios People & Services * Formal Training 8 3 graduate research supported it 2 ES, possibly two MS, one PhD (Services * Formal Training 8 3 graduate research supported it 2 ES, possibly two MS, one PhD (BPAR, Other training * ES) (Services * ES) (Service	DISU	Local and national government offices concerned with coral reefs and the communities that depend on them.	15-Nov-17	14-Nov-20	NEW	10,900,215	679,724
Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs	Program Management Coordination	Rapid, inclusive and sustained economic	((MSC	C	01-Jul-15	30-Jun-20	ONGOING	2,150,000	424,625
Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs	Project 1. Organized breeding and selection for the establishment of breeding true to type native pig populations in the Cordillera Administrative Region, Cagayan Valley, Calabarzon and Mimaropa regions	growth Poverty reduction and empowerment of the poor and vulnerable	Establish phenotypic and genetic characteristics of native pigs in Reg. CAN, 2 4 a 8. 4b; Establish variations and heritability of economically important traits, and Test selection and breeding methods for breed development. Develop community-based breeding and production model.	4 breeding true to type genetic groups of Philippine native pigs.	MSC, KASC, NVSU, BAI, BSU, MPSPC, ISU, UPLB	native pig raisers	01-Jul-14	30-Jun-19	ONGOING	39,336,853	9,576,755
Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs	Project 2. Local resource-based free range production management protocols and systems for breeder and slaughter native pigs	Poverty reduction and empowerment of the poor and vulnerable	Develop a practical and profitable native pig range management protocols Develop sustainable free range production models for small road farmers. Establish free range pig healthcare management procedures to ensure biosecurity and public health.	800 slaughter native pigs in each of the 4 target regions	MSC, KASC, NVSU, BAI, BSU, MPSPC, ISU, UPLB	native pig raisers	01-Jul-14	30-Jun-18	ONGOING	10,648,662	2,280,888
Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs in Eastern Visayes	Project 1. Native Pig Breeding And Production As Sustainable Livelihood Option in Calamity Prone Areas	Poverty reduction and empowerment of the poor and vulnerable	Occurrent and making the dynamic prophylic (incorphiladic) and production performance) and genetic characteristics of nather legis in Estem Visuals. Determine the extent of workshifty and hermalistic of production totals affecting growth, reproduction and cartass quality of nather legis in Samar and neighboring growners. Develop selection methods and freeding strategies that are suited to native pigs in the area and lead towards statingle the breeding goals. -Analyze the effects of environment on growth and reproduction of native pigs in region 8. Develop a model for a profitable community-based breeder and slaughter native pig production system.	Benefit tune to type genetic group of native pigs in region 8. A least 3 scientific gener on phenoglicypenet characteristics and unique high value trates, correlated between genetic characteristics and deviable phenotypic traits, utility of molecular mankers on prownth, reproduction, resistance to disease, adaptation to environment and meat quality attributes. Native pig populations (50 sows and 10 boars) with improved growth and reproductive performance and meat quality. Rereding and activation technology on native pig breed development and production performance improvement.	ESSU	B. Researchers, professors, students and swine breeding practitioners professors of the professors of the professor 2. Native gip farmers A. Native gip formularies 4. Institutional markets	01-Jul-15	30-Jun-20	ONGOING	8,127,124	1,650,072
Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs in Eastern Visayas	Project 2: Developing A Weather Resilient Local Resource- Based Free Range Production Management Systems For Native Pigs	Rapid, inclusive and sustained economic growth	Develop practical and cut efficient naive gig range management, feeding and health care protocols and sentens suited to the recourses available in rural farming communities and to the capacity and capability of rural farmers is fastern Visayos. Observious anges are anthocement protocols for free range native pigs that are anchored on: -indigenous technologies in the region, -optimum stocking lets for free range native pigs in the target regions, and -seasonal variations of the availability of naturally occurring feed materials for rative pigs in the target regions. -Develop free range native pig production modules suited to farm conditions in the target regions.	3.00 duspiter native pigs. A least all scientific documents on free range native pig production and management, native pig range chancement protocol, inventory of roughlages and other natival feeds for free ranged native pigs, growing ferramenes and cares, quality of pratise pigs racial con range. 3. Ration formulation technology for free range native pigs. 4. Free range native pig production technology	ESSU	Native pig products processors Native pig silose. Native pig silose. Native pig consumers Native pig Consumers Native pig Consumers Native pig Consumers	01-Jul-15	30-Jun-18	ONGOING	2,723,141	841,166
Conservation, Improvement and Profitable Utilization of the Philippine Native Pigs in Eastern Visayas	Project 3: Native Pig Value Chain And Policy Studies in Eastern Visayas	Rapid, inclusive and sustained economic growth	SEABLIN the demographic politic of safeting pig salem, student, processors and 5 conjumes of nature good coulcids. To same and englishoring proforces. Generate information on marketing dearness and printing systems of nature pigs in the area that would be used in improving the marketing efficiency of nature gives outcome the supply, demand, and marketing from of railve pig production. It is better this page of the safety in the same that would be used in improving the marketing efficiency of nature pig production. It is active this page outcomes to a same that we pig production it is active to say and sussess current local government policies released to nature pig production. If Sermulate policy with said and sources transages that are supported or nature pig improvement and profitate utilization inflations in Eastern Visayas. If Determine the socio economic contribution of native pig production in Eastern Visayas.	Information on channels and intermediaries involved in the marketing of native pigs and their products in Eastern Visayas.	ESSU	R.B.D planeers, researchers, professors and students 2. Gertreements regisped in native pile production 3. Native pilg traders 4. Native pilg product processors	01-Jul-15	30-Jun-17	ONGOING	1,444,800	81,700

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Development of a National Pork Traceability System	Project I. Ensuring Food Safety and Quality Along the Supply Chain Trough Product Traceability: An ICT-Based Pork Traceability System Model	Rapid, inclusive and sustained economic growth	To ensure safety and quality of port, a system for tracking meat products using information and Communication Technologies (CPT) will be developed utilizing the RFID technology and QR code, and interlinked network of computer and database.	Traceability and identification system established from farm to market - Live-case diagram and ISO of a compute system for tracking animals at the farm - A computer and RFD system for national stating animals at the farm, with online, remotic and writers into ryporting system and - A computer system for subcordance inventory of animals while in transit - A computer system and tracking and farm specific information to meat parts via a QR code tagging system and tracking of meat products for the marketers - A protocol for 2 Good beased quality stamping system for the MMS - National Distalsae for tagging and tracking swine and meat products.	UPLB	Direct beneficiary of the Program at least 2 organized swine farm ign model farm Ceropit 2, government regulatory agencies insiderat beneficiary; at least 2 meat processor and traders	01-Apr-14	30-Sep-1	7 ONGOING	9,908,420	1,198,808
Development of a National Pork Traceability System	Project 2. Molecular Traceability: DNA-Based Verification of Meat Product Information	Rapid, inclusive and sustained economic growth	The project aims to address issues in false labelling by developing a technology for species identification in most and mest products. Two methods of species identification will be developed, one utilizing the technology of Polymerase Chain Reaction (PCQ) and a Loop-mediated technemial Amplification (LAMP) method.	Molecular based (PCR and LAMP) technology/protocols for verification of meat and meat products Primer sets and barroode region sequences for at least 4 species. A baseline didation false labeling of meat products in tos Balkos, laguna which may serve as an input for ingolishor object verified for labeling the Proliferation.	UPLB	NMIS Various stakeholders of newly slaughtered pork like 15 slaughterhouse owners and 12 meat dealers	01-Apr-14	31-Mar-1	ONGOING	13,533,711	245,865
Development of Integrated Crop Management (ICM- Tomato) for Increasing the Productivity of Fresh and Processing Tomato Production	Project 1. Development of Disease Management Technologies for Fresh and Processing Tomato Production	Poverty reduction and empowerment of the poor and vulnerable	General: The project aims to develop an integrated crop management for fresh and processing tomato production involving the use of adaptable technologies for disease management. Specific: Specific: To extract the development of the processing tomato production; To establishe the disease profile in fresh and processing tomato production; To establishe the disease profile in fresh and processing tomato production; To establishe the disease profile in fresh and processing tomato production; To formation of the commendation and validate for field application using the effective disease management together with insect pest, weed and nutrient management recommendation for fresh and processing tomato production.	1.At least two (2) publications in ISI indexed journal 2. Disease profile in firsh and processing tomato production 3. Disease profile in firsh and processing tomato production 3. Difficacy of health yeeling flexhology for rel cut run management in fresh and processing tomato production 4. Determined the effective concentration and induction time of carragement application, and 5. Disease the concentration and induction time of carragement application, and 5. Disease the concentration and induction time of carragement application, and 5. Carragement to the processing tomato production. 5. Circ induction is otherly seeding and carragement exchangings, and GM recommendation. 6. Trained manapower in the form of students BS (1 BS. Agriculture - Plant Pathology and 1 MS (Plant Pathology) and their thesis research supported by the project.	UPLB, NFC	Researchers will benefit from the generated scientific information about integrated crop management for fresh and processing tomate production using adoptable technologies and site specific disease management.	01-Nov-17	31-Oct-20) NEW	6,726,305	2,511,819
Development of Integrated Crop Management (ICM- Tomato) for Increasing the Productivity of Fresh and Processing Tomato Production	Project 2. Development of Insect Pest and Weed Management Technologies for Fresh and Processing Tomato Production	Poverty reduction and empowerment of the poor and vulnerable	To develop an improved integrated crop management for fresh and processing tomate production using effective and site specific insect pest and werd management technologies. 1. To characterize the succession of insect pests in a given production system under a specific crop growing environment, and deemine the factors (instant); crop and inserted transagement practices) associated with insect pest occurrency. 2. The continues of the section of the sec	Like specific insect past succession pattern under a given crop growing environment (climatic and edspitic factors) and pest management (biologicu), cluruls, absolvarial and chemical control) in fresh and processing termate production Lifficacy of modific release strategy of biological control agents and carragement technology to manage intent pests of fresh and processing termator management technology to manage intent pests of the management of the manage	UPLB	Seasochers and students will benefit from the generated scientific information about the site specific succession pattern of linear pests and biological control based one protection technologies for fresh and processing tromate. Total or provide the process of the process of the process of the process of the process and government detension agencies (DA RCA). SOLIC will benefit benefit benefit of the process of the proces	01-Nov-17	31-Oct-21	NEW	4,199,098	2,004,852
Development of Integrated Crop Management (ICM- Tomato) for Increasing the Productivity of Fresh and Processing Tomato Production	Project 3. Development of Site-Specific Nutrient Management Program for Tomato Production	Poverty reduction and empowerment of the poor and vulnerable	The project aims to develop title specific nutrient management program for fresh and processing formato production in faces force and faces Sur. Specifically. (1) To characterize soll fertility status, farmers' numbers and water management protects are yellob in selected board family. (2) To formation and manifest and water management protects are yellob in selected board family. (2) To formation and management and selection and selection and selection and selection and formulate IOM recommendation that incorporates site-specific nurrient management and effective and adaptable disease, insect pest, and weed management technology and waldate its field application.	Year 1 Vest Vest Vest Vest Vest Vest Vest Vest	UPLS	NPC which is the only processing company for tomato in the country will benefit from this technology as well as their farmer opposition. Will benefit from the prevail to the processor of the pr	01-Nov-17	31-Oct-2	NEW	4,074,592	1,401,341
Development of Robust Tools for Managing Sardine Fisheries in the Philippines: Zamboanga Upwelling-Bohol Sea System	Project 5. Molecular technology-based assessment of the sustainability of sardine fisheries	Rapid, inclusive and sustained economic growth	Sudines are important food fish for the filipinos and its Ubheries a significant source of employment to brounded of fishes and factory workers. However, satifies fisher and Philipine fisheries in general are beset with critical issues such as overfishing and excessive fishing pressure, deficient management strategies and habitate depositation orange of the strategies and habitate depositation orange of the strategies and habitate depositation orange of the strategies and habitate or commercially valuable inhibitors of the strategies of the strategies and the strategies and habitate or electromagnetic processing strategies of effective management of this resource. It merge aradine fishery week in the executive processing strategies of effective management of this resource. The maps aradine fishery week in the eachty what sardines consume. The decline of phytoplantion growth due to climate change would certainly have serious effect on the diet of sardines and consequently to sardines fishery.	 Collection of fish specimens from the targeted site 2. Digitize images of fish collected from targeted site 3. DNA sequence 4. Morphological identification of stomach content 	UPD	Commercial Fisheries Sector, Coastal Communities, Philippine Researchers	16-Jun-14	31-Dec-1	ONGOING	12,483,629	705,659
Disaster Risk Reduction of Climate Change Impacts on Agricultural Farms in the Cordillera Administrative Region Program	Project 1. Disaster Risk Reduction of Climate Change Impacts on Vegetable Farms in Abra	Integrity of the environment and climate change adaptation and mitigation	1. To develop good of champions and empower communities on disaster risk reduction and climate change miligition and adaptation; 2. To improve resiliency of vegetable farms against advers impacts of climate change 3. To develop IEC materials on disaster preparedness	Product: 2 Intextual wirdbreak; I training module People and Service; 2 Immer landers and TÜLO Il Clinicial/employees trained as DRR pool of champions, 56 Immer cooperators trained; 2 women's group capacitated Publication: 3 If centerative; 2 popular article; 1 video dia publication: 3 If centerative; 2 popular article; 1 video dia preparative production of DRR/CCA for agriculture (barangay & municipal Level) (1) Policy recommendation on DRR/CCA for agriculture (barangay & municipal Level)	Abra State Institute of Science and Technology (ASIST)	LOUs and Abra farmers	01-Oct-17	30-Sep-1!) NEW	6,991,032	3,540,350

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Disaster Risk Reduction of Climate Change Impacts on Agricultural Farms in the Cordillera Administrative Region Program	Project 2. Disaster Risk Reduction of Climate Change Impacts in Agricultural Farms in Apayao Province	Integrity of the environment and climate change adaptation and mitigation	To promote S&T interventions for mitigation and adaptation measures to the disaster vulnerable communities in Apayao province	Product: 2 Sinuctural Windbreak; 2 Simple Dirp Impgation; 2 rain water harvesting tanks; 85U crop stehes; 1 Stanium Goodle People and Services: - 2 farmer leaders and 7 LGU officials/employees trained as DRR pool of champions, 56 fematic cooperations trained; 2 women's group capacitated Publications 3 LIC materials; 2 popular articles; 1 video dig; Places and Partnersin; 2 MAO forged RECVCAM statishability Policy: 1 Policy recommendation on DRR/CCA for agriculture (barrangay & municipal Level)	Apayao State College (ASC)	Farmers and LGUs	01-Oct-17	30-Sep-1		6,289,950	3,280,720
Disaster Risk Reduction of Climate Change Impacts on Agricultural Farms in the Cordillera Administrative Region Program	Project 3. Disaster Risk Reduction of Climate Change Impacts on Vulnerable Terrace Farms in Benguet	Integrity of the environment and climate change adaptation and mitigation	To introduces \$87 interventions con mitigation and adaptation measures at the farm level and increase the capacity of farmers and communities in the 6 provinces of CAR to mitigate adverse impacts of dimate change	training modules People and Services: 2 farmer leaders and 7 LGU difficials/employees trained as DRR pool of champions; 56 farmer cooperations trained; 2 women's group capacitated Publication: 3 IEC materials; 2 popular	BSU	LGUs and Farmers of Benguet	01-Oct-17	30-Sep-1	9 NEW	10,299,555	5,063,024
Disaster Risk Reduction of Climate Change Impacts on Agricultural Farms in the Cordillera Administrative Region Program	Project 4. Disaster Risk Reduction of Climate Change Impacts on Legumes and Vegetable Farms in Ifugao	Integrity of the environment and climate change adaptation and mitigation	To introduce \$4T intervention on mitigation and adaptation measures at the farm level and increase the capacity of farmers and communities in the provinces of fliggo to mitigate the adverse impacts of climate change	Product: 2 nin water havesting tanks: 2 training modules Brople and Service; 2 farmer leaders and 15 Clio Glicials/lemployees trained as DRR pool of champions; 56 farmer cooperators trained; 2 women's group capacitated publication: 13 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 1 video city Production: 15 ff. uniterials; 2 popular articles; 2 video city Production: 15 ff. uniterials; 2 video city Production	IFSU	LGUs and farmers	01-Oct-17	30-Sep-1	9 NEW	6,109,614	3,168,250
Disaster Risk Reduction of Climate Change Impacts on Agricultural Farms in the Cordillera Administrative Region Program	Project 5. Disaster Risk Reduction of Climate Change Impacts on Vulnerable Coffee Farms in Kalinga	Integrity of the environment and climate change adaptation and mitigation	To introduce S&T interventions con mitigation and adaptation measures at the farm level and increase the capacity of farmers and communities in the provinces of fligation of farmers and communities in the provinces of fli	Product: 2 Implomated coffee plantations; 2 rain water harvesting tanks; 1 training module People and Service; 2 Amerie leaders and 15 Codi Ficials employers trained as DRB pool of champions; 56 farmer cooperators trained; 2 women's group capacitated publication; 31 Centerials; 2 appular artises; 3 video of ghi publication; 31 Centerials; 2 appular artises; 3 video of ghi publication; 31 Centerials; 2 appular artises; 3 video of ghi publication; 31 Centerials; 3 posture artises; 3 video of ghi publication; 31 Centerials; 3 video of ghi publication; 4 video of ghi publication; 4 video of ghi publication; 5 video of ghi publication;	ksu	Coffee farmers	01-Oct-17	30-Sep-1	9 NEW	6,312,229	3,192,642
Disaster Risk Reduction of Climate Change Impacts on Agricultural Farms in the Cordillera Administrative Region Program	Project 6. Disaster Risk Reduction of Climate Change Impacts on Vulnerable Farms in Mountain Province	Integrity of the environment and climate change adaptation and mitigation	To promote SM interventions on mitigation and adaptation measures at the farm level and increase the capacity of farmers and communities in Mt. Province	Product. 2 aim water harvesting trains; Z turnel type cop sheffers; Z training modules People and Sirving Camme leaders and LOU difficulty/mellymellymellymellymellymellymellymel	MPSPC	Farmers, LGUs	01-Oct-17	30-Sep-1	9 NEW	7,097,847	3,784,085
Disease Management for Improved Mud Crab Production	Prevention and Mitigation of Diseases in Mud crab Culture	Rapid, inclusive and sustained economic growth	1) To develop and optimize quantitative PCR techniques to detect WSSV, 2) To develop and optimize PCR protoco to detect WSSV in water and soid, 3) To determine other predipposing environmental factors for videois and WSSV infection provides and the provides of the pro	Optimized quantitative PCR techniques to detect WSSV; PCR protocol to detect WSSV in the water and soli. Theredable Velocities (MSSV) in the water and soli. Theredable Velocities (MSSV) in the water) oil that may result in infection and montality outbreak; Calculate Velocities (MSSV) in the water) of the velocities of the American State of the Velocities of Veloc	SEAFDEC	B Mud crab hatchery owners and growers in the implementation or proper management strategies for higher survival and production: TO lagnostic laboratories for the PCR protocol on the detection of WSSV in the water and soil	01-Sep-15	28-Feb-1	8 ONGOING	4,440,281	713,962
DOST-PCAARRO Technology Business incubation (TBI) Program	DOST-PCAARRD-BSU Agriculture and Food Technology Business Incubator	Rapid, inclusive and sustained economic growth	Component 1. General Objectives: To encourage, support and nutrure the development of mature agri-aqua-based technologies into viable agribulanes commencial ventures for the creation of wealth, employment and economic development. Specific objectives: Specific objectives: Specific objectives: Long the control agriculture agriculture of the component per establishing one & strengthening statistics. The component is controlled agriculture and strengthen the different Agribusiones TBIA is list into a national network of Agribusiones TBIA of portioned the strengthen the definent Agribusiones TBIA of portioned the strengthen the definent Agribusiones TBIA of portioned the strengthen the ATBIA or apactly to assist its incubation in the local TBIA as well as ashifulential program and the project aims time recovers — anapactive to assist its incubation by microbation is program and the project aims time recovers— anapactive training to the component 2: General Objective: The project aims time recovers—invaling the component team and its incubations. Specific Objectives: 1. To review and enhance the existing SSUATBIA/C business plans, 2. To enhance the capabilities of the ATBIA capacity to assist its involutions. Specific Objectives: 1. To recover and the project aims to incubations. Specific Objectives: 1. To review and enhance the existing SSUATBIA/C business plans, 2. To enhance the capabilities of the ATBIA capacity and the specific project and the project and	Anishitations: At least 1 training mobile prepared, At least 2 publication(IC material on Till best practices developed). Patents: At least 3 publications for copyright Patents: At least 3 publications for copyright People and Services, the least 1 Local Training attended by Till Management Staff per year, At least 1 1 Local Training attended by Till Management Staff per year in the 1st 2 years, At least 1 2 Local Training attended by Till Management Staff per year in the 1st 2 years, At least 1 2 Replaced to the staff per year, At least 1 2 Pater staff per year, At least 1 2 Pater staff per year, At least 1 2 Pater staff per year, At least 2 2 Pater staff per year, At least 2 2 Pater staff per year, At least 2 2 Pater staff year, At least 2 2 Pater staff year, At least 3 2 Pater staff year, At least 4 2 Pater staff year, At least 5 2 Pater staff year, At least 5 2 Pater staff year, At least 5 2 Pater staff year, At least 6 3 Pater staff ye	asu	Component 1. MOMIS, spin offs and start-ups in AANR enterprises; AFNR Graduates, Cooperative. Component 2. Smallholder farmers and food processing entrepreneurs, students	01-Oct-17	30-Sep-1	9 NEW	10,113,468	4,881,221
DOST-PCAARRO Technology Business incubation (TBI) Program	DOST-PCAARRD-CLSU Agriculture and Food Technology Business Incubator	Rapid, inclusive and sustained economic growth	General: The goal of this project is to enhance the performance of CLSU-AFTBI operation. Specific The goal will be realized through the following specific objectives: 1. Assist enterpreneral-critists to commerciale agriculture and bookbased products and produce two (2) graduate incubates is the next 2 year; 2. Assist AFM's takents, Girdusters, and Technology generation to start their MSMEs; 4. Establish CLSU-AFTBI product shownoon for incubates.	Products: Tabaja—Engerling, dired, smoked, canned Coat—Ungraded goat, canned, ready to eat Multimoon—Firsh, threef, picked, white energy direh, capsule Mango—production, pickled, dired, pure, wine, juice Conson—Ensi (pragna, pickled, direh, power wine, juice Conson—Ensi (pragna, pickled, direh, power wanned, bottled, pickled Rice—aramatic rice, organic rice, rice byproduct Olay) Carabao—processed milk products Daily Carabao—processed milk products Olay) Carabao—processed milk products No. of Inchabters (unred) Products No. of Government Agencies 18 No. Private Agencies/Financial Institutions 4 Places: Number of communities involved in incubation 8	CLSU	AFNR Graduates, MSM6s	01-Oct-17	30-Sep-1	9 NEW	9,826,839	2,677,601

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
DOST-PCAARRD Technology Business Incubation (TBI) Program	DOST-PCAARRD-CvSU Agriculture and Food Technology Business Incubator	Rapid, inclusive and sustained economic growth	Abutiness incubator's main ediperties is to produce successful individuals that leve the program financially visible and freetanding, incubatory graduates commercials technologies, or stepic, and strengthen local exconomies. It helps to stimulate economic development benefits for the province in terms of plan and tax revenues by producing successful entergeneurs through equipping them with the messary howeledge, attitude and stills on entrepreneurship, production, processing, marketing, resource generation and bosiness analysis of errors originational and feative commodities. Specific objectives are 2. To identify potential incubates to undergot the program 2. To train these contributing to the economy through employment and revenues.	A total of 10 incubates every year from the 3 components Four (4) graduates by end of Year 2	CvSU	Entrepreneurs in agri-aqua based enterprises	01-Oct-17	30-Sep-19	NEW	8,037,036	2,627,908
DOST-PCAARRD Technology Business Incubation (TBI) Program	DOST-PCAARRD-ISU Livestock Technology Business Incubator	Rapid, inclusive and sustained economic growth	The general objective of the project, it is establish a Technology Business incubation (TRI) facility introder for the promotion of knowledge based between protection and proportional control of the proposal of the proposa	I. Publications - At least 3 conclusion of the officed course finalized (Y1). 2 Points: 3. Products: 4. Popel and Services - At least 3 formalized training on barriers incubation officed (Y1). 4 Nest 10-15 enrollers with increased awareness on technology and business management of the contract of the	isu	AFNR Graduates, MSMEs	01-Oct-17	30-Sep-19	NEW	16,592,766	2,172,162
DOST-PCAARRD Technology Business Incubation (TBI) Program	DOST-PCAARRD-UPV Fisheries Technology Business Incubator	Rapid, inclusive and sustained economic growth	General Objective: To foster a culture of innovation and entrepreneurial ecosystem by providing a venue for dynamic interactions among the scardemic, industry and the private sector to develop technology based for the TBI shall have the following specific objectives: 1. To maximize and advance the optential technologies and innovations generated by the faculty. 1. To maximize a set advance the optential technologies and innovations generated by the faculty consecutives and surfaces in InVP through technology transfer and commercialization, by spin-off, lerening, or start-ups development; 2. To promote the creation of new technology business startups and graduates creatible from TBIQ. 3. To provide a minovative and entrepreneurial ecosystem through business creations capability business principate on sections of provident private and starting, and entrepreneurial ecosystem long-place indications, and entrepreneurial ecosystem long-place indicating and exactivity and activate chemical providence in a providence of the prov	a) Technology Transfer and Commercialization b) Technology-based Business Creation b) Technology-based Business Creation c) Technology-based Business Creation c) Technology-based Business Creation c) Technology-based Commercialization c) Fill a Cama, Industry and Funding Partnership Formation c) Fill Solido Pecchipment c) Fill Solido economic Development	UPV	UPV Community LGU Miagao - Flaherfolks and the community Province of Bolio Fishery industry sector General public consumers	01-Oct-17	30-Sep-19	NEW	18,223,777	2,835,279
DOST-PCAARRD Technology Business Incubation (TBI) Program	DOST-PCAARRD-VSU Agriculture and Food Technology Business Incubator	Rapid, inclusive and sustained economic growth	To establish a system that will unsure enterpreneurably memors of AANR students and graduates, restablishes, growers processor and enterpreneural higher VIII. *To enhance business and employment exportunities of AANR graduates through commercialization of agriculture and food betrohogies via AFIRIPS. *To accelerate commercialization of AANR technologies developed by the university and other R&D notifications in the region	Product. At least 7 Europology-based commercial products and businesses. Progle and Service 4. bits 4.7 New Conferences 1.7 Soul of 18 managery administrators Publication. At least 1. Publication on experiences of YSU in technology commercialization thru TBI Places and Partnerships: Partnerships with the chambers of commercia/industry, At least 7 MGAs with incolables.	VSU	Students in agriculture, forestry and natural resources «OVOK farmers, processors, individual or groups interested to workure into AAMR technology commercialization «Farmers producing the needed raw materials for processing	01-Oct-17	30-Sep-19	NEW	34,928,614	2,076,907
Enhancing Competitiveness of Philippine 'Carabao' Mango through Varietal Improvement Program "Molecular Markers in 'Carabao' Mango Associated with Peel Color and Thickness, and Resistance to Anthracnoss and Fruit Fly- old title"		Poverty reduction and empowerment of the poor and vulnerable	To identify 'Carabao' and other mango varieties with red blush and thick peel and develop mango hybrids	Lifeotified potential Carabon mango strains/selections with red blash and I with thick peel from other ranges universe or mango cultivar/seriety for Carabon mango . Lifeotified at least 1 storp app mango cultivar/seriety for Carabon mango . Produced amone grantee hybrids by paring (plaging method of hybridization 4. Established breeding blocks for mango hybridization program . 6. Stid Sati and agene amorations . 6. Published at least 6 papers in scientific journals	UPLB	Mango groven/exporters Researches Breaches	01-Nov-15	30-Oct-21	ONGOING	15,949,890	1,812,119
Enhancing Competitiveness of Philippine 'Carabao' Mango through Varietal improvement Program "Molecular Markes in 'Carabao' Mango Associated with Peel Color and Thickness, and Resistance to Anthracnoss and Fruit Fly- old title"		Poverty reduction and empowerment of the poor and vulnerable	To identify 'Carabao' and other mango varieties with resistance to anthracrose and fruit fly	Liebertich 2 Contains and 5 other margo underly resistant to fruit fly Liebertich 2 Contains and 2 other margo varieties resistant to authorscore Published at least 6 papers in scientific journals	UPLB	Manago grovers/keporters Researchers Researchers Researchers	01-Nov-15	30-Oct-21	ONGOING	10,411,430	1,342,453
Enhancing Competitiveness of Philippine 'Carabao' Mango through Varietal Improvement Program "Molecular Markers in 'Carabao' Mango Associated with Peel Color and Thickness, and Resistance to Anthracnoss and Fruit Fly- old title"	Project 3. Identification of Molecular Markers in 'Carabao' and other Mango Varieties Associated with Red Blush, Thick Peel, and Resistance to Anthracnose and Fruit Fly	Poverty reduction and empowerment of the poor and vulnerable	To identify molecular marken associated with specific traits in mangoes through the application of Genotype by Sequencing technology	1. Identified markers associated with specific traits 2. Identified tray behind: 3. Database for mango 4. Publish at least 6 papers in scientific journals	UPLB	Mango grovers/keporters Recentries Greeders	01-Nov-15	30-Oct-18	ONGOING	14,498,868	1,457,420
Enhancing Livelihood Opportunities in Conflict- Vulnerable Areas in Mindanao through the LIFE (Livelihood Improvement through Facilitated Extension) Model	Project 1. Scaling Out the LIFE Model to Improve the Productivity of Select Upland Farmers Group in Surallah, South Cotabato	Rapid, inclusive and sustained economic growth	General Objective: To improve productivity and income of select farmers in Barangay Canalaxy, Suraliah, South Cotabato through the UFE Model. Specifically, the project insite oz 1. Improve farmers' productivity and income by using sustainable and appropriate farmine, post-production and marketing practices; 2. Strengthers farmer groups and promote general regulations of the Control of the Co	Paces and Partnerships: MOA/MOU with Brey Canalhy, suralish to implement the LHE model, Eganded network of name Bryy Canalhy, cooperators. People and Services: Conducted apacity building/mentioning for new facilitators o Organized at the Least 30 femere cooperators into one cutter of Conducted at least one costs visit and one other capacity building activity for cooperators or improved access of farmer groups to government programs thru Barragery, Municipal/OFL (CI), as well as agencies than Ser AC, PA, OFL and OSOT of Istablished at least one learning area, Registered the farmercroperators group with DOLI of Conducted at least 20 other capacity building activities for cooperators, One feel Dby Products: increased farmers' income by 30% (based on results of the business can provide the Common of the Common o	UPM	The target beneficiaries of the project include extension service provides, focal government units, farmer partners, policy makers and even the R&O community.	16-Oct-17	15-Oct-20	NEW	7,449,037	2,852,134

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Enhancing Livelihood Opportunities in Conflict- Vulnerable Areas in Mindana through the LIFE (Livelihood Improvement through Facilitated Extension) Model	Project 2. Scaling Out the LIFE Model to Improve the Productivity of Select Lowland Farmers Group in Datu Abdullah Sangki, Maguindanao	Rapid, inclusive and sustained economic growth	General Objective: To improve productively and income of select farmers in Datu Abdullah Sangki, Magaindanus through the UFE Model. UFE Model. Specifically, the project aims to: 1. Improve farmers' productively and income by using sustainable and appropriate farming, post sproduction and marketing practices. 2. Strengthers farming groups and promotive and promotive farming and promotive far	Places and Partnerships. MOLANOLU with one barrappy of DAS, Magnindanso to implement the UEF model, Expanded network of farmer coperators of Brazange of DAS, Magnindanso to implement the UEF model. Expanded network of farmer coperators of Brazange of DAS, Magnindanso cooperators and at least one other port agency. Repole and Service, Conducted capacity belighting/mentoring for new facilisators of Organised at least 10 immercapenators into one cluster of Conducted at least one cross with and one other reorgament thus Brazange, Mannicaglifficity [1], as well as agencies such as PAC, NA, OTI and DOST or initiated to establish at least one demo farm of Conducted at least 23-other capacity building activities for cooperators, Registered/Enhanced the farmersorporators group with DOLE of Conducted at least 23 other capacity building activities for cooperators of Stabilided at least con demo farm of Other Facili City. Products: Increased farmers' income by 20%, Increased farmers' income by 30% (Based on results of the baseline data). Products: Increased farmers' income by 20%, Increased farmers' income by 20% capacity of the baseline data. Products: Increased farmers' income by 20%, Increased farmers' income by 20% capacity of the baseline data. Products: Increased farmers' income by 20%, Increased farmers' income by 20% capacity of the baseline data. Products: Increased farmers' income by 20%, Increased farmers' income by 20% capacity and the products of the produ	UPM	The target beneficiaries of the project include extension service providers, local government units, larner partners, policy makers and even the 8&D community.	16-Oct-17	15-Oct-20	NEW	7,270,702	2,205,634
Enhancing Livelihood Opportunities in Conflict- Vulnerable Areas in Mindanao through the LIFE (Livelihood Improvement through Facilitated Extension) Model	Project 3. Scaling Out the LIFE Model to Improve the Productivity of Select Coastal Community Group in Ipil, Zamboanga Sibugay	Rapid, inclusive and sustained economic growth	General Objective: To improve productivity and income of select seaweed growers/farmers in Ipil, Zambourga Sibugay To improve productivity and income of select seaweed growers/farmers in Ipil, Zambourga Sibugay Secretizally, the project aims to 1. Improve seaweed growers/farmers' productivity and income by using sustainable and appropriate production, post-production and marketing practices; 2. Strengthen Immer groups and promote gender equality and cultural existivity; 2. Strange like between firmers and both government and non-government institutions relevant to improving their productivity and strengthening their groups; 4. Downer and analysis her adoption, productivity and welfare improvement of farmers in these conflict subreadle communities that use the LHE model.	Places and Partnerships: MOA/MOU with joil, Zamboanga Slougy to implement the LIFE model, Expanded networks of farmer cooperation of joil, Zamboanga Slougy to implement the LIFE model, Expanded networks of farmer cooperations of joil, Zamboanga Slougy (Salastra of Organized at least 30 farmerooperation from or clusted reactions) or Conditional and and one other capacity building schiely for cooperations in one proved access of farmer groups to government programs thus flarmager, Municipal/Cyr (LIFE, as well as genetics such as SIFAR, PCA, DA, D1 and DOST or Established at least one learning ease, Registered the farmercooperation, Siring way MDD LG0 conducted as least 30 cele capacity building schiels for cooperation, One Frendrich Increased farmers' income by 30% (based on results of the baseline data) Policiose: Initiated staheldiers' consultation with cooperators for policy development, Ordinance or Resolution passed in the local government unit Publication: One-work on material for experience of implementing the LIFE Model, At least 2 papers published that are peer reviewed o Training module published o Terminal report	UPM	The target beneficiaries of the project include extension service providers, local government units, famer partners, policy makers and even the R&D community.	16-Oct-17	15-Oct-20	NEW	7,008,952	2,174,884
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project 1. Development of Feeding Protocols and Practices to Support the Nutritional Requirements of Dairy Buffaloes		\$10 assess the existing fleed resources, current feeding practices, identify nutritional agrs and production performance of the daily publishess raised by the flamers at the national impact zone (Pills) in where Gipl and in Sin Agustin, Isabela \$10 catability and production of passes and ingumes for daily published production of 2n catability and practical feeding system using frome-growing reaching the production of buildings of the production from 4.5 to 7 kg \$10 certain at least institutionally complete to increase daily mills production of buffelion from 4.5 to 7 kg \$10 certain at least of 200 daily flamers and system developed by the product \$1 certain at least the production of the production of daily buffalors and profitability achieved by puriticipating daily buffalor farmers.	At the end of project implementation, the following expected outcomes would have been realized at the NIZ, Name Sign and san Against, labelate: B The farmers produced sustainable of supply of quality forages, adopt complete nutrient diet or standard ration and practice consistent feeting of their daily an inimals. If With year-ound supply of home grown forages the farmers adopted intensive of the produced of their standard ration and intensive their standard realized intensive intensive their standard produced on the problem of liverfluide intensive times from their standard produced intensive and the problem of liverfluide intensive times from their standard produced in the problem of liverfluide materials like seedings, cuttings are commentably available to farmers at the FCC Daily Soc. Brigging production of additional forms from 15 file for Trivia. B Additional income from dairy farming accounts for P33,750 per cow per lactation.	PCC	8.53 primary cooperative in Nuvar Edia with more than J.000 members mostly composed of maillaboried and put Utilia Garmens 8. One (1) cooperative in San Agustin, isabela with at least 200 farmers raising crossbored buffaloes.	01-Jan-16	31-Dec-18	ONGOING	13,074,986	3,428,037
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project 2. Development of Reproductive Management Program for increased Efficiency of Al in Dairy Buffaloes	Rapid, inclusive and sustained economic growth	BTo gain a deeper understanding on the overlan physiology of dairy buffuloes during estrous cycle BTo elacidate overlan foliacular activity and emborine profile in relation to the maintestation of behavioral sign of estrum and fining equations a guide for extensions and firmans obtermining proper time of AI in dairy furthers to improve conception rate and consequently call drop, BTO evaluate a reexproduced of the AI folial buffulos. The profile rest feeting the area of the air profile and the area of the air profile of the air profile and the air profile area of the air profile and the air profile area of the air profile and air profile area of the air profile and air profile area of the a	E Basic information on regroductive physiology/ovarian function in daily buffaloss in the Philippine's ill information on ovarian foliocular and hormonal response associated with behavioral entry and ovalidation for timed at progress individually safety and sealing the protective with success rates of 30% to 35% and 35% to 20% in the NLC and San Agustin, respectively in success rates of 30% to 35% and 35% to 20% in the NLC and San Agustin, respectively in success the season of sealing interest from 2.2 comes to 15% morths; 35% calculated milks production based on the season based Timed All program it Research publications 18.40% 50% increase in the number of calves produced it 50% increase in the number of daily cow on the millible (in the 50% increase in milk production (25% contribution of the Project) it At least 50% increase income for farmers	PCC	B Animals science professionals, professors, students 13 Dairy farmers 3 Dairy cooperatives ≥ Multiplier farms 3 VBAIT techniciaes 11 (GU technician	01-Jan-16	31-Dec-18	ONGOING	24,598,650	7,909,190
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project 3. Development of Health Care Technologies and Practical Farm Practices in Support of Increasing Buffalo Milk Production	Rapid, inclusive and sustained economic growth	\$ To establish epidemiological data (temporal and spatial data) for risk factor analysis Including identification of predipsoning causes affecting decrease risk production \$1 To develop technologies and damp beful produced and the production of the production and the develop developed and damp beful produced and the production of the production of the production of the damp beful production of the pro	E Raduced priciations of floodolosis, inpursoonalis are an installs in water fulface. It increased male production through practice of the ecommended management options for firms of the production of the production of the production of the production of the production of the production of the production of the production of the production of the production of production of the production of and trypanosomias is it is not production of the production of the production of the production of the production of the production of	PCC	B Animal Breeders of private and government farms B Academs/Ricearchers B Field Veterinarians/Animal Extension Workers B Farmers	01-Jan-16	31-Dec-18	ONGOING	10,695,839	3,559,009
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project A. Milk Quality and Safety Assurance from Farm to Milk Processing Plant	Rapid, inclusive and sustained economic growth	To assess currentcollection and handling practices in relation to quality and safety of milk produced by a small holder days may be a basis from the case of the form when that hall see was guide for farmers in making adjustments of their feeding and management practices to maintain consistent milk or adjust throughout the teaction priced of 300 apr. 310 develops milk quality their protocol that can be presented as the case of the protocol that can be presented as the case of the ca	Baseline information on existing mits harding practices and farm level mits quality. If a farm level mits quality is a farm level mit quality is a farm of the process of t	PCC	a All say actors in the value clash will benefit from the project. Derect beneficiaries include the smallfoot limit goodcare, dairy cooperatives, federations, associations, milk callectors from processors and dairy plant immagers. If Collection Center, milk guality center is saff at the Milk Collection Center, milk processors and dairy plant immagers. If Schemion workers, and those in the academie and researcher can be indirect beneficiaries of the project.		31-Dec-18		17,222,390	1,949,959
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project S. Strengthening San Agustin Crossbred Carabao- based Enterprise Development (CBED) Model	Rapid, inclusive and sustained economic growth	It or evaluate the effectiveness of crimor-based bethnology options in feeding, disease control, mix condection and handley and delay farm management in strengthening the San Agustin May Coperative (SADACO) and in revitalizing the 13 organized groups of San Agustin who are engaged in enterprises based on mix production from consolved and native carbonals. Devolving a process price shystem for providing technical apport extensive the would lead to the exclusion of an all soft price device providing technical apport and part of the soft providing and the soft providing technical approaches to apport the technical providing facility at about 300 libers raw milk part days. If create opportunities to operate the existing processing facility at about 300 libers raw milk part days. If create opportunities for 540ACO to promote in products to owner whereathers and do enter into marketing agreements with exhabited mixing marketing and distribution businesses or groups. Observate sclence based-information that would be used as inputs to accordance and approaches and the providing and appropriate part of the school and part of the schoo	Information on the success driver and innovation on the CRED model in San Agastin B Note and innovation of the CRED model in San Agastin B Note and milk handling, transport, processing and pricing and marketing practices and systems by drain particular startings. They discussed in the control production reduced covering the 15 days a succession revealables and activative pragged in the days supply chain—production, collection, which is a supply that the production of the control production and the control production of the control p	РСС	500 carebao CB owners that own initially the 750 breedable female CBs	01-Jan-16	31-Dec-18	ONGOING	9,523,234	2,861,078
Enhancing quality protein maize (QPM) production, storage and utilization as feed grain	Project 4. Nutritional evaluation of QPM hybrid cultivars for poultry and swine feeding	Rapid, inclusive and sustained economic growth	To assess the nutritional profile and feeding value of QPM cultivars.	Nutrient profile of new OPM hybrid cultivar Production performance and product quality data of swine, broiler, layer fed QPM-based diets Economic analysis of using QPM	CLSU	® Farmers ® Animal growers ® Feed miller	01-Sep-13	31-Aug-17	ONGOING	3,286,436	246,446

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
ENHANCING SEA CUCUMBER PRODUCTION: UNCOVERING AND UTILIZING GENETIC RESOURCES FOR SUSTAINABLE DEVELOPMENT	Delineation	Rapid, inclusive and sustained economic growth	the development of genomic resources for the saunding in required to further efforts towards increasing hardwarp production by hostodotox improved manufage ment such delineation for management and conservation of land populations and stock enhancement initiatives. The general objective of the project is to develop general recovers for Holdburks such such with well be useful towards enhancement of hatchery production and stock delineation for management of capture fisheries.	Draft Inlage map for Holdhurin scalars have done for Bernariers. 2. Genomic resource for protecting scalars have done for markers. 3. Genomic resource for protecting scalars associated with variability in growth rate. 3. Genomic resource for genetic stock delineation: SNP loci for screening and validation.	UPD	Government and private sectors engaged in sandfish industry; fishers, traders and orther direct users of sea cucumber stocks; researchers	01-Aug-15		ONGOING	12,900,000	5,695,184
ENHANCING SEA CUCUMBER PRODUCTION: UNCOVERING AND UTILIZING GENETIC RESOURCES FOR SUSTAINABLE DEVELOPMENT	Project 2: Identifying management units for high value sea cumber species, Holothuria scabra and Stichopus horrens	Rapid, inclusive and sustained economic growth	The general objective of the project is to identify ecologically meaningful management units for two high- underdes are cumper species, Holdmires scham and Sichopus horners, by integrating fingermation on species belong with biophysical connectivity studies, and focusing on selected areas across the Philippier ecological powers are cumpler hardwrises are being developed. The specific objectives are: [15 assimites that the properties of the	1. Characterization of cryptic diversity in Skirhopus horners based on reproductive behavior, genetic differentiation, and chemical profiles, and its implications to identifying management units in the species. 2. Novel molecular markers for stock delineation in Holichterius scarbs and Skirhopus horners. 3. Exhibiting solologists and Skirhopus horners. 3. Exhibiting solologists and Skirhopus horners. 3. Exhibiting solologists and Skirhopus horners are considered to the solologists and Skirhopus horners and explaint season and seas	UPD	Stakeholders in sandhis hindusty (government and private sector): LOUI, fishers, trade and other direct uses of natural (wild) sea occumber; local researchers from academe	01-Aug-15	31-Jul-18	ONGOING	18,300,000	5,437,273
Enhancing the PCAARRD and DOST Regional Offices Partnership in Technology Transfer and Promotion for the AANR Sector	Establishing Partnership to Organize and Mobilize Institutions in Central Visayas in the Development of S&T Action for Emergencies and Risks in the Agriculture, Aquatic, and Natural Resources Sector	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PCABRID programs, projects and other to eque through closer partnerships and colloborations with early of the DOST Regional Cities caross the nation Specific 1) To enhance our ANAN technology transfer efforts in the regions through increased partnerships of PCABRID and the DOST Regional Cities, 2) To promote more SST immostates and strategies especially those supported by PCABRID and/or DOST in the ANAN section for countryside rural development 3) To as the regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	1) Packaged and approved at least seventeen (17) sechology transfer and promotion projects of Trigonics 2). Salvated a least seventeen (17) communities zones theration; 3) formgithmed network and linkages with the 17 regional offices 4) Forged and signed seventeen MOAs with the OOST regional offices.	DOST Regional Office 7	This program intends to assist communities in emergency- and hazardifficted areas, marginalized farmers and fisher folds, upland deciles, neighbor communities, agreeting from the effective (IABS's), even that pre-babilities, as well as groups of womens, out-of-study outs, person (editor, petch entures, septically those from the poorest of the poor provinces in the country	01-Feb-17	30-Jun-17	NEW	300,000	300,000
Enhancing the PCAARRD and DOST Regional Offices Partnership in Technology Transfer and Promotion for the AANR Sector	Establishing Partnership to Organize and Mobilize Institutions in Eastern Visayas in the Development of S&T Action for Emergencies and Hazards in the Agriculture, Aquatic, and Natural Resources Sector	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PCANNID programs, projects and other tie-ups through closer partnerships and collaborations with each of the DOST Regional Offices across the nation Specific I) To enhance our ANNI technology transfer efforts in the regions strough increased partnerships of PCANNID and the DOST Regional Offices, 2) to promote more SSI Timovotions and strategies especially home supported by PCANNID and/or DOST in a ANNI NECTION concurrying for and development 3) To sategrate the involvement of DOST and assist PCANNID-Inseld technology transfer activities and projects in the regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	Perkaged and approved a lest seventeen (17) technology transfer and promotion projects in 17 regions; 2) Assisted at less treventeen (17) communities across the nation; 3) Strengthened network and inlaises, with the 17 regional offices 4) Forged and signed seventeen MOAs with the DOST regional offices.	DOST Regional Office No. 8	This program intends to assist communities in emergency- and hazardifficted areas, marginalized farmers and fisher followpland develories, neighbor communities, against reform beneficiaries (ARB'S), own drug rehabilities, as well as groups of womers, out-off-study outs, person fielder, reder lettures, specially those from the poorest of the poor provinces in the country	01-May-17	30-Nov-17	NEW	300,000	300,000
Enhancing the PCAARRO and DOST Regional Offices Partnership in Technology Transfer and Promotion for the AANR Sector	Expanding Linkages and Strengthening Partnerships among linstitutions	Rapid, inclusive and sustained economic growth	The project is being proposed primarily to enhance the partnership and organizes the institutions and agencies in the Biccl Region to implement relevant and responsive SAFE projects in the AANR sector. 1. To enhance participation among Consortium Member Institutions (CMIs) in implementing SAFE institutions on AANR sector in the Biccl Region 2. To develop a plan for the implementation of the SAFE program from 2017-2022	Organized and established as for team composed of Consortium Member institutions and other identified parties institutions to implement the SAFE program in the Bick Region - Prioritized and identified sites for initial project implementation - Prioritized and identified sites for initial project in proposals within four months and submitted to the PCARRO SAFE program	DOST Regoinal Office No. 5	This program intends to assist communities in emergency and bazardaffected area, marginalized famers and fither folias, upland dwelfers, indigenous communities, agrarian reform beneficiaries (ABRS), even drug rehabilities, as well as groups of women, out-of- school youth, serious/elders, rebel returnees, especially those from the poorest of the poor provinces in the country.	01-Aug-17	31-Jan-18	NEW	400,000	400,000
Enhancing the PCAARRO and DOST Regional Offices Partnership in Technology Transfer and Promotion for the AANR Sector	Operationalization of the S&T Action Frontline for Emergencies (SAEP) Program and Siks in the Agriculture, Aquatic and Natural Resources Sector - Mindanao Cluster Group	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PCAARD programs, projects and other tie-up, through doser partnerships and colloborations with each of the DOST Regional Differs aroust the nation Specific II To enhance our ANNI technology transfer efforts in the regions through increased partnerships of PCAARDs and the DOST Regional Offices, 17 to promotive most SP innovations and strategies especially and PCAARD and the DOST Regional Offices, 17 to promotive most SP innovations and strategies especially estimated by the PCAARD of the DOST Regional Offices, 17 to promotive most size innovations and strategies especially estimated by the PCAARD office of the PCAARD	1) Packaged and approved at least severteen (17) technology transfer and promotion projects in 37 regions; 2) Aside at least severteen [17] communities arous the realizor, 31 projects in 47 regions; 2) Aside at least severteen [17] communities arous the realizor, 31 projects in 18 regions and Initiages with the 17 regional offices; 4) Forged and signed seventeen MOAs with the DOST regional offices.	DOST Regional Office No. 10, DOST Regional Office No. 11, DOST CARAGA	This program intends to assist communities in emergency- and bazardaffected area, manignizing famers and fisher folis, upland dwelters, indigenous communities, agrarian reform beneficiaries (ARSS), even dire rehabilities, as well a proups of voemen, out-of- cially and the production of the production of the production of the production of the country.)	01-Jun-17	31-Jan-18	NEW	900,000	900,000
Enhancing the PCAARRD and DOST Regional Offices Partnership in Technology Transfer and Promotion for the AANR Sector	Operationalization of the S&T Action Frontline for Emergencies and Hazards in the AANN Sector (SAFE) program in the North Luzon Cluster	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PCARRID programs, projects and other ties up through door partnerships and collocations with each the DOST Regional Differs around the real specific IV to enhance our ANNE technology transfer efforts in the regions through increased partnerships of PCARRID and the DOST Regional Offices; 21 to promote more SST immostions and strategies especially whose supported by PCARRID and/or DOST in the ANNE sections for countryade rand development; 31 to sintegrate the involvement of DOST and assist PCARRID-funded technology transfer establishes and projects in the regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	1) Pekingker and approved at least severteen (17) technology transfer and promotion projects in 17 regions; 2) Ausisted at least severteen (17) communities arous the ratio; 3) Strengthered network and likelages with the 17 regional offices 4) Forged and signed severteen MOAs with the DOST regional offices.	DOST Regional Office No. 1	This program intends to assist communities in emergency and hazardaffected areas, manipulated farmers and fisher folis, upland dwellers, indigenous communities, agration reform beneficiaries (ABS's), even thus rehabilities, as well as groups of women, out-of- stand-opands, areas indeed, and extremely, expectally those from the poorest of the poor provinces in the country.	01-Apr-17	31-Jan-18	NEW	2,150,000	2,150,000
Enhancing the PCAARRD and DOST Regional Offices Partnership in Technology Transfer and Promotion for the AANR Sector	Operationalization of the S&T Action Frontline for Emergencies and Hazards in the AANR Sector in Zamboanga Peninsula	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PCARRID programs, projects and other fre-ups through closer partnerships and collaborations with each of the DOST Regional Gibbs: across the rational Specific 13 to enhance our ANNR technology transfer efforts in the regions transpose, increased partnerships of PCARRID and the DOST Regional Gibbs; 2) to premote more SST immonitions and strategies especially and the programs of	1) Packaged and approved at least seventeen (T7) lechnology transfer and promotion projects in 2) regious; 2) ackade at least seventeen (T7) communities around her acids; 0.3 regional network and linkages with the 17 regional offices; 4) Forged and signed seventeen MOAs with the DOST regional offices.	DOST Regional Office No. 9	This program intends to assist communities in emergency and hazardifficted area, negripalized firmers and fisher folis, update developes, neighbors, agration reform beneficiaries (ABS), even frag rehabilities, as well as proups of women, undi- stabod youth, estimate/defers, rebel returness, especially those from the poorest of the poor provinces in the country.	01-Apr-17	30-Jun-17	NEW	320,000	320,000
Enhancing the PCAARRO and DOST Regional Offices Partnership in Technology Transfer and Promotion for the AANR Sector	Strengthening the Partnership to Organize and/or Mobilize Institutions for the Development of S&T Action Frontline for Emergencies and Hazards in the Agriculture, Agustic and Natural Resources (AANR) Sector in SOCCSKSARGEN	Rapid, inclusive and sustained economic growth	The general objective of the project is primarily to stemptien collaboration among \$AT partners in Region (XII) in packaging and implementing projects and activities under the SAFE program Secrifically, the project aims to: I. Identify and organize institution or stateholders in the AARIR sector in the region as an ad hoc team for SAFE; 2. Develop a plan for the implementation of the program in the region. 3. Package and implement SAFE projects in the region; and	1) Packaged and approved at least seventeen (17) technology transfer and promotion projects in 17 regions; 2) Asides at least seventeen (17) communities sorts the ratios; 3) Stronged network and linkages with the 17 regional offices 4) Forged and signed seventeen MOAs with the DOST regional offices.	DOST Regional Office No 12	This program intends to assist communities in emergency and bazardaffected area, marginalized famers and fisher folias, upland dwellers, indigenous communities, agrarian reform beneficiaries (ABRS), even drug rehabiliters, as well as groups of women, out- of-school youth, serious/elders, rebel returnees, especially those from the poorest of the poor provinces in the country.	01-Apr-17	30-Jun-17	NEW	350,000	350,000
ENHANCING THE PRODUCTIVITY AND MARKETABILITY OF QUEEN PINEAPPLE	Program Management and Coordination (PMC)	Poverty reduction and empowerment of the poor and vulnerable	To coordinate the conduct of M&E activities such as mistyeer and annual program reviews, field visits; financial import and serves as repository of documents about the program		⁰ VSU	o	01-Apr-16	31-Mar-19	ONGOING	2,575,996	380,086
ENHANCING THE PRODUCTIVITY AND MARKETABILITY OF QUEEN PINEAPPLE	Project 1. Comparative Field Performance of Tissue Culture Derived Plantlets and Suckers of Queen Pineapple	reduction and empowerment of the poor	Generals. To improve the productivity and quality of Curen pineapple under occura. Interrupping scheme specific. 1.1 no grinize a micropropagation technique via direct multiple botor induction. J. 6 for Queen pineapple. 3. To evaluate two somatic embragomesis protocol for genera pineapple. 4. To assess somadonal variation in improtant traits of longer pineapple. 5. To outsite the field performance of trisue culture-derived planting. 6. materials in comparison with suckers under coconul interropping scheme in 7. Lepte and Camarines Norte conditions.	Optimized in two propagation technique for Queen pineaple six direct multiple shoot induction. Efficient smart carrivogreensis protocol for Queen pineaple leaffring (developed, Addrey, productive and high yielding Queen pineapple populations suitable for coconut intercropping	VSU	Pineapple growers in 2. Pineapple traders. (local and export) 3. Pineapple processors 4. Research institutions 5. LGUs/SUCs	01-Apr-16	31-Mar-19	ONGOING	3,944,511	1,071,622

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
ENHANCING THE PRODUCTIVITY AND MARKETABILITY OF QUEEN PINEAPPLE	Project 2. Assessment and Variability in Growth, Yield and Biochemical Characteristics of Queen Pineapple (Ananac comosus var. comosus) Populations in Camarines Norte and Leyte	Poverty reduction and empowerment of the poor and vulnerable	General: To characteric existing Queen pineagple populations and do selection among individuals within populations where considerable variability exists. Specific. 1. To dentify important characterists of Queen pineapple that are related to yield, fruit quality, market acceptability and possible possible provided as acceptability and possible possible provided as acceptability and possible possible provided as a To selection among important growth, yield and biochemical characteristics of Queen' pineapple parallel provided pr	light exposure condition of the pineapple plant and the biochemical characteristics of its fruit. 8. Two reproduction/processoration sites (one in Camarines Norte and one in Leyte) for selected Cueren' pineapple plants established.	VSU, CNSC	L. Commercial "Obsert" pineappile growers/firmers in Carraines. Nets and Lepe 2. Essenth and Educational institutions (ISCS and VSU) 3. Pineappile fiber industry stakeholders 4. Pineappile breeders 5. Coconst- and *Useer* pineappile based product processors and consumers 6. LGUs	15-Apr-16	14-Apr-18	ONGOING	4,148,335	2,793,525
ENHANCING THE PRODUCTIVITY AND MARKETABILITY OF QUEEN PINEAPPLE	Project 3. Optimization of Planting Density Regulation for Queen Pineapple in Intercropped System	Poverty reduction and empowerment of the poor and vulnerable	General: To determine the optimum plant population of queen pineapple under intercropped systems in Regions S and 8. Specific: Component 1: 1. Determine optimum plant population of Queen pineapple under pile based cropping system 2. Assess performance and effect of fertilizer management on the yeld of pil. 1. Determine optimum plant population of Queen pineapple on open upland area, coxcountbased at 10m x 3. Determine optimum plant population of Queen pineapple on open upland area, coxcountbased at 10m x 30m denially and count-based with irregular spacing. 4. Verify the response of queen pineapple planted under occount-based cropping system with different planting densities in terms of a) Agronomic performance, 15m yield quality; () call affairest planting densities in terms of a) Agronomic performance, 5m yield quality; () call affairest planting densities in terms of a) Agronomic performance, 5m yield quality; () call affairest planting densities in terms of a) Agronomic performance, 5m yield quality; () call affairest planting densities in terms of a) Agronomic performance, 5m yield quality; () call affairest planting densities in terms of a) Agronomic performance in the yield of cocount.	A technology recommendation or protocol on the optimum population density of queen pineapple under different intercropping systems in Region 5 and Region 8	DA Regional Field Unit V, VSU	Oxem pireagple farmer, Agricultural technicians, LCU7, Farmers associations and comprarise and other institutions involved in queen pireagple, coconut or pill production or industry.	01-Apr-16	31-Mar-19	ONGOING	7,371,852	1,453,331
ENHANCING THE PRODUCTIVITY AND MARKETABILITY OF QUEEN PINEAPPLE	Project 4. Development of Site-specific Integrated Pest Management of Queen Pineapple under different cropping schemes in Region 8 and Region 5	empowerment of the poor	General: To develop a site specific vustainable pest management strategy of Queen pineagole under different cropping years in leyer and Garnaines Norte: Specific 1.7 to survey, assess and identify the major arthropod pests and diseases of queen pineagole patient under different cropping scheme in selected localities in leyer and Camarines Norte; 2 to monitor the abundance and dynamics of the major pests and prevalence of disease; 3. To conduct biological studies of major intext pests collected and solication and marker/stration of diseases that will be observed. A To identify and assess potential naturally occurring biocontrol agents that can be utilized to develop control / and management strategies of major pests of queen pineagole under different cropping schemes selected project state; and diseases associated with pineagole as field guide for their sustainable management.	1. Identification of major pents and diseases of queen jaineagels under different cropping schemes 2. Identify proteinal insularing correctifip becam gents gaint major pest shar and diseases of pineagels under different cropping schemes 3. Establish the population dynamics of major insect pest of pineagels 4. Data base on Deseases seventy, includence and prevailence of pineagels in order to develop effective management strategies 5. If C materials for pests and diseases social scheme of the pineagels and strategies of the diseases seventy, include and prevailence of the diseases seventy includes and prevailence and prevailence of the diseases seventy and supplications of the diseases seventy includes and prevailence and their sustainable management. 1. List and documentations of indigenous, conventional and traditional pests and diseases control strategies, 2. Hierchification of potential biological control agents and antagonists to be useful in the development of effective pests control strategies, 3. Effective mass production techniques for inscription and produce of the production of potential biocom agents, including entomograthisgens and antagonists, and 5. Site-specific sustainable strategy/places and production of potential biocom agents, including entomograthisgens and antagonists, and 5. Site-specific sustainable strategy/places and production of potential biocom agents, including entomograthisgens and antagonists, and 5. Site-specific sustainable strategy/places and production of the production of potential biocom agents, including entomograthisgens and antagonists, and 5. Site-specific sustainable strategy/places and production of the producti	VSU	Goal farmers and stakeholders, scademe, researchers, policymakers, development planners of the pineagole industry	01-Apr-16	31-Mar-19	ONGOING	3,672,708	1,231,406
ENHANCING THE PRODUCTIVITY AND MARKETABILITY OF QUEEN PINEAPPLE	Project S. Development of Various Products from Queen Pineapple Wastes	Poverty reduction and empowerment of the poor and vulnerable	The project aims to: 1. Gather information on production and postbarrest practices on Queen Recapple in Camarines Notez 2 seasts the production and postbarrest tosons. On Queen pinapple 3. Promote appropriate production and postbarvest technology for Queen Pineapple.	 Compact, convenient and low-cost feedbook coal that a all-statual and environment freedly with high quality homing differency and long-rengel of consumption. Economically feesable feed supplement for best health and performance of nather chicken. Perfect belief on flow-like semination share which is salfer ground, and easy way of perhing up and tendenting meet for savory dishes minus preservatives and coloring 4. Cost and return analysis of the developed products 5. Reduction of postflutness wastes up to 80% thro-value adding 	CNSC	Farmers, LGUs, Biofuel Manufacturer, QP growers, entrepreneurs, students, extension workers, researchers	01-Apr-16	31-Mar-18	ONGOING	3,919,338	1,022,341
ENHANCING THE PRODUCTIVITY AND MARKETABILITY OF QUEEN PINEAPPLE	Project 6. Evaluation of Queen Pineapple Grade Standards and Assessment of Implementation and Compliance in Camarines Norte as Basis for Policy Reforms and Formulations	Transparent, accountable, and participatory governance	Genotic. The project will evaluate the Cuenn pineappin (DVI) gands standards and sauses the supplementation of and compliance in Camarine Noter to basis of projit ynforms and formulations. Specific. 1. Determine the GVP grade standards implementation in terms of feshional assistance, capability building, monotoming and supervision, policy upport and organization of first groups and compliance; 2. Determine the standard and supervision of the standards implementation and compliance; 2. Determine the standard and dissolvantages of unitary the Most beyon princip (with grades specified vivia 4-via band-mark of the principle farmers. 5. Evaluate the GVP grade standards, propose policy-reforms and formulate policies on OP grades standards and trading; and 6. Validate the level of acceptability of the provisional policies in pineapple grading and trading.	Detables on implementation of and compliance on Gene Receptio (CD) Clarke Standards in Camaricon Morra. Court and Return Assigns in reliefung CF college System 3. Marketability index for QP 4. Proposed policy interventions on pinespile grading and trading	CNSC	Queen Pineagaple Farmers, LGUs, QP Program implementers	01-Apr-16	31-Mar-18	ONGOING	7,439,527	367,619
ENHANCING VALUE CHAIN FOR PEANUT (Arachis hypogaea L.) PRODUCTION AND PROCESSING	Enhancing Peanut Production Through Innovative Water Management Strategies	Rapid, inclusive and sustained economic erowth	The project aims to increase the productivity of peanut by 30% through the application of drip irrigation technology	3 Validated irrigation management strategy for pearut 8 Flott test farms showcasing the D1 inchnology 81 message flowated from dimproved quality flowant produce 1 microse in yield by 30% 81 mcrase water productivity by 60% 81 improved seed quality. 91 increased profitability of pearut production 31 training modules and IEC materials 33 00 pearut farmers trained on D1 technology.	MMSU	Farmers, researches, extension workers, students, policy makers	01-Jan-16	31-Dec-17	ONGOING	4,999,616	1,813,308
Ex-Ante Assessment of the Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines (SARAI) Research Program: The Case of Rice and Corn	Ex-Ante Assessment of the Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines (SARAI) Research Program: The Case of Corn	Transparent, accountable, and participatory governance	to estimate, to the extent possible, the economic value of the outcomes of the SARAI program for com	 Inception report containing the final approach, methodology, work plan, fielding schedule and institutional arrangement. Synthesis report include chapters regarding the overview of the program, general framework and methodology applied. 	UPLB	Decision makers at PCAARRD, grantees of PCAARRD GIA funding,	01-Oct-17	30-Sep-18	NEW	2,032,641	2,032,641
Ex-Ante Assessment of the Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines (SARAI) Research Program: The Case of Rice and Corn	Ex-Ante Assessment of the Smarter Approaches to Reinvigorate Agriculture as an Industry in the Philippines (SARAI) Research Program: The Case of Rice	Transparent, accountable, and participatory governance	to estimate, to the extent possible, the economic value of the outcomes of the SARAI program for rice	 Inception report containing the final approach, methodology, work plan, fielding schedule and institutional arrangements. Synthesis report include chapters regarding the overview of the program, general framework and methodology applied. 	UPLB	Decision makers at PCAARRD, grantees of PCAARRD GIA funding.	01-Oct-17	30-Sep-18	NEW	2,344,479	2,344,479

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Feeds and Feeding Systems for the Improved Mallard Ducks	Project 1. Establishment of the Nutrient Requirements of Improved Philippine Mallard Duck	Poverty reduction and empowerment of the poor and vulnerable	The goal of this project is to establish the nutrient requirements of Philippine malarid duck (Assaplarhythrocht). Specific depictives include: 1. To determine the apparent metabolizable energy content of corn, wheat, rice, sophean meal, casava meal, wheat policite, the train, and fin in meal. 1. To determine the train and fin in meal. 1. To determine the establizable energy requirement of growing and laying Philippine Mallard ducks; 4. To determine the optimum standardized leal digestible (901) lysine: calorie ratio for 9 maximum growth of Philippine Mallard ducks; 4. To determine the optimum standardized leal digestible (901) lysine: calorie ratio for 9 maximum growth of Philippine Mallard ducks; 6. To determine the optimum Standardized leal digestible (901) lysine: calorie ratio for Maximum growth of Philippine Mallard ducks; 6. To determine the optimum SD one+or-systie ratio for maximum egg production performance of Philippine Mallard ducks; 7. To determine the effects of choline supplementation on egg production performance of PMIO; and 8. To determine the effects of choline supplementation on egg production performance of PMIO; and 8. To determine the calcium and phosphorus requirements of Philippine Mallard ducks at laying stage. (1. Feeding value of conventional feed ingredients for Philippine mallard ducks. 2. Animate regardeness of Philippine mallard ducks to be distributed to local duck raisers and other agencies to serve as their guide in buying or producing duck feeds. The established nutrent registerements can also serve as guide for leaves of inherinal fluidary in regulating free quality of registered the scale some as guide for leaves of inherinal fluidary in regulating the quality of 3. Sample feed formulation of grower and layer diet to some as guide for feed manufacturers. The sample feed formulations can encourage duck raisers to mit where own feed which could be othergor than commercially available feed due to a between of marketing cost. Publishable joined an alricis and poster/paper presentation on nutrient requirements of Philippine mallard ducks.	UPLB	1. Establishment of nutrinest requirements of Philippine mallard ducks will help duck since to simprove their productivity and profitability. Up to now, there are no established nutrient exquirements of Philippine mallard ducks and commercial duck requirements of Philippine mallard ducks and commercial duck recommendations for ducks. Most duck raisers are also using chicken feeds for their ducks with many not be appropriate to the needs of Philippine mallard ducks. 2. Provision of nutrient requirements specific for Philippine mallard ducks can serve as guide for feed millers in formulating feeds duck send of their commercial productions of the commercial production; duck feeds, have used to the commercial producting duck feeds. Moreover, It can also encourage more duck nises to mit their own feeds within could be chapped than of the commercially available duck feeds. Moreover, It can also encourage more duck nises to mit their own feeds within could be chapped than commercially available duck feeds. Moreover, It can also encourage more duck nises to mit their own feeds within child be chapped than commercially available duck feeds. Moreover, It can also encourage more duck nises to mit their own feeds within child be chapped than commercially available duck feeds. Moreover, It can also encourage more duck nises to mit their own feeds within child be chapped than commercially available duck feeds. Moreover, It can also encourage more duck nises to mit their own feeds and the production of the commercial available duck feed. Moreover, It can also encourage more duck nises to mit their own feeds and feed and feed and feed and feed and feed	01-Jul-15	28-Feb-18	ONGOING	3,959,637	689,097
Feeds and Feeding Systems for the Improved Mallard Ducks	Project 2: Establishment of Feeding System for the Improved Philippine Mallard Duck Raised under Confinement System	Rapid, inclusive and sustained economic growth	to be able to establish feeding systems for the different ages of Philippine Mailard Ducks under confined condition	1. Feeding program for the improved breef of Philippine malland dust 2. Feeding systems for the inferences tagged of Philip is confirments. A Benefitted stocking of enturylifter upon cregarisement for optimum performance of Phila at growing and laying stage raised under confinement system 4. Determined effects of marked et again (levers) and small supplementation on production performance and improved egg quality of PhilD.	UPLB	Duck Raisers, duck breeders, feed millers	01-Jul-17	30-Jun-18	NEW	2,071,539	2,071,539
Feeds and Feeding Systems for the Improved Mallard Ducks	Project 3: Establishment of Feeding Sysytem for the Improved Philippine Mallard Duck Raised under Range Management System	Rapid, inclusive and sustained economic growth	to be able to establish feeding system of PAND at different stages under free management system	1. Feeding program for the improved breed of Philippine mallsed dark under range management, system 2. Bottelfield refer form that is not efficient to use all program gad belying stages under range management system 3. Bestified stocking density for optimum performance of PAND arrowing and belying stage incide under range management system 4. Bestified first of madre de agus supplementation on performance of PAND on range 5. Stentflied levels of mixed feed supplementation for PAND on range 6. Evaluation of different fauna and flora in the herd. 7. Publications	CLSU	Duck Raisers, duck breeders, feed millers		31-Dec-18		3,141,265	2,531,647
Functional Genomics Assisted Development of Gene Markers for Economically Important Traits in Cacao and Rubber Production Varietal Improvement	Project 1. Functional Genomics Assisted Development of Gene Markers for Economically Important Traits in Cacao Production and Varietal Improvement	Rapid, inclusive and sustained economic growth	The project aims to: a) develop and establish a gene marker and EST for library database in cacso and b) use the established gene marker/EST database for cacao improvement through functional genomics	Analyzed gene markers for S cacao HTV/s	USM, UPLB	Researchers/Technicians	16-Feb-15	31-Dec-18	ONGOING	12,668,488	2,963,599
Functional Genomics Assisted Development of Gene Markers for Economically Important Traits in Cacao and Rubber Production Varietal Improvement	Project 2 . Genomics Assisted Development of Gene Marker for Important Traits in Rubber Production and Clone Improvement	Rapid, inclusive and sustained economic growth	The project aims to establish genetic data nabber and devoleg gene marker/ expressed sequence tag (ST3) database for naber, bits is started evolegament of high-yielding vieryly of closes compand to the development of new varieties of rubber through the long-gestating traditional breeding technique.	Established genetic data for nubber; Developed gene marker/expressed sequence tag (EST) database for nubber	USM	About 305 rubber-farmer cooperators Other potential beneficiaries include farmers involve in rubber production in other areas/regions/provinces	16-Feb-15	31-Dec-18	ONGOING	12,918,708	3,322,031
Genomic applications in Mud Crab Aquaculture and Resource Management	Project 1. Developing Genomic Resources for Stock Delineation and Sustainable Development of mud crabs	Rapid, inclusive and sustained economic growth	The general objective of the project is employ genomic resources to generate information and technologies understitive statements of the statement of the project of production of municipals, Susernata, Solloucca, and S. transpetburia. Specific objectives. It Develop genomic resources based on the markets for Susernata, Solvaecca, and Specific objectives. It Develop genomic resources based on the markets for Susernata, Solvaecca, and Statement of Susernata, Solvaecca, and Statement, Susernata,	1. Genomic resources for genetic stock delineation (DRP markers) for three Sofal species: Serviza, 5 clinicars, All Strangeshorts. Collemification of management units for natural populations of Sofila servata and S. chivaces. 3. Developing 3NP markers for traceability of S. cereatian Diogeographic region or hatterily origin. 4. Technical apputs for development of the College C	UPD	1. Stakeholders in the mutacha bindustry (government and private sector) may benefit from the development of markers for molecular selection for phenotype and certification of best melocities selection for phenotype and certification of best apparatulative and fibrillary practices. 2. Resource managem, e.g. (LOIs excommendations potentially resulting from stock delinication studies. 3. Fishers, reformed the cause of natural (walk) mutachas stocks, as increased hatchery production may in the long-term contribute to resource finding researce, or, and for stock enhancement of natural mudachapopulations. 4. Local researchers particularly graduate students research produced copportunities of enhancement of natural mudachapopulations. 4. Local researchers particularly graduate students research produced copportunities and methods for resource management 5. Research/Scientific community as results from these studies and provide further avenues for research related to mudacha genomics, biology, ecology, and resource management.	01-Oct-15	30-Sep-18	ONGOING	13,304,828	3,346,076
Genomic applications in Mud Crab Aquaculture and Resource Management	Project 2. Integrating Genomics with Image Analysis and Geographic Information System Technology (GIS) for Improved Rearing of Mud Crabs	Rapid, inclusive and sustained economic growth	This project, "I make objective to two agreements and generics approaches integrated with more recent composing technologies, geographic information systems (GS) and image analysis research to deliver solutions for some practical must colar production issue. Develop an automated dissulfaction system for species identification of early stage must crabs 2. Produce GS maps on vulnerability of must crab farm sites to develoted temperature and validate hypothesis on the tolerance of must call by productions using RM-4g. 3. Determine candidate proteins and hypothesis on the tolerance of must call by productions using RM-4g. 3. Determine candidate proteins and A. Establish the genetic basis of the immission female phenotype, a market preferred character in mud crabs.	Automated dissolfer system for juveniley firsts must cash, on PC and mobile decide Application. JCG images that represent vulnerability of current and goneratin must cosh term sints or location temp 3 Populations of remperature tolerant must crash not run in establishing broodstock are consistent early and the control of the control	DLSU	**Limages of the mud cab finiterio Zirlahes that usply the mud cab powells fellows, Mud cab farmer along once owers Adul crab breather along the control of	01-Sep-15	31-Aug-18	ONGOING	15,575,364	8,990,338
Improvement of Coconut Varieties through Genomics, Genetics and Breeding for a Competitive and Sustainable Philippine Coconut Industry	Evaluation of Coconut Wrinkle 1 Gene Expression and its Effect in 018 Biosynthesis in a Model Monocot Zea mays L (Project 5-Phase 2)	Poverty reduction and empowerment of the poor and vulnerable	The project aims to express and novaluate the Coonaut Winkle I (EnVRII) gene in association with oil biosphythesis in an experimental monocor model system Zea mays. L (com). 1. To transfer the chVRRI cassette into a selected yellow corn inbred line using the gene gui (microparticle bombandment). 2. To regenerate transformed com tissues into plantless under contained laboratory and genenous conditions. 3. To analyse expression of the transgene ChVRRII in GM com by Quantitative Reverse Transcriptase Prolimenta Committee (pile PCI). GM corn (velode plant) in comparison to control maise materials. 3. To analyse the felty acid profile of GM corn kernels to validate changes of fatty acid composition in comparison to control maise materials.	1. Paint issue culture products, regimenting transformed lissues, whole plantlets in bottley paintlets in the process of hardening/bec/mailstation and plants in the BLQ greenhouse and transgenic corn seeds. 2. Validation of CWMRI as a positive or engative effector molecule in the of bloopyrithesis pathway by correlating the result of prCV, boal fat content and fatty acid profile in the com kernels. 3. Development of a working through for other selected/novel occount genes for validation and functional analysis	UPLB	Oract beneficiaries will be plant physiologists and agromomist/gracium/sts who will adopt the developed stace culture protocols for other related or unrelated studies such as further improvement/enlancement of the protocols, use of the protocols for mulation induction using embryogenic cell suppression, set. Convolving and development of techniques for enhanced gene expression studies for undergraduate (ISA RHT) and graduate studients (ISA RHT) and graduate	01-Oct-17	30-Sep-19	NEW	4,830,408	2,556,960
improvement of Coconut Varieties through Genomics, Genetics and Breeding for a Competitive and Sustainable Phillippine Coconut Industry	Project 2. Biomarker Development and Molecular Mapping for Coconut Genetic and Varietal Improvement	Poverty reduction and empowerment of the poor and vulnerable	Generate molecular markers from the assembled genomes of fall/Dwarf occonut varieties and map the biomarkers, genes, QTL loci on coconut linkage map	At least 10 reofecular markers associated with early flowering, fast growth, oil and mut yield, and water content and quality; one [1] linkage map of coconut	UPD, PCA	Occount farmers, occount organizations and communities extension workers, LGUs	15-Jan-14	14-Jan-19	ONGOING	30,470,378	4,953,596

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Improvement of Coconut Varieties through Genomics, Genetics and Breeding for a Competitive and Sustainable Philippine Coconut Industry	Project 3 Phase It Curation, Validation and Utilization of Coconut Transcriptome Sequences for Gene-Based Marker Development	Poverty reduction and empowerment of the poor and vulnerable	General To further characterize and curstle transcriptiones of the different occonst varieties and utilize their sequences for the development of gene-based markets processor for the development of gene-based markets. 1. Assemble and annotate Magtacod (MAGD) and Malayan Red Dwarf (MRD) x Tagnaran Tail (TAG) transcriptiones and submit to public transcriptiones sequences repository (will become available publicly after a year from time of submission or once published) assembled and annotated transcriptiones of Lagovar Tail (MAGT), Clargan Dwarf (ATD), Rayapar Tail (MAT), and variants Tail (TVT) and variants Tail (TVT) and the submission or once published assembled and annotated annotate the Agrand (MADG) and from time of submission or once published assembled and annotated annotate the Agrand (MADG) and Malayan Red Dwarf (MMD) if Tagnaran Tail (TAGT) transcriptione sequences. A Perform extensive comparates transcriptionis for each target trait: high nay yeld, shell thickness, high toddy yield and high-water quality. 5. Test trait markets is PCA germplasm collection. 7. Write and submit for review the papers for publications.	A. Assembled and amorbited transcriptome sequences of MAGD and MBDTAG. 2. Curated and stored transcriptome sequences of LAG, CAD, BAT, PTRI, and TTP to public reportion; a. Scrated transcriptome sequences of MAGD and Malayan. MBDTAG transcriptome sequences to public proposition; 4. PLaste gene markers conferring lybin utyleds, a field thickness, high toddy yield and high-water quality. 5. Gene expression patterns and trends for target traits using gift? and sequence alignments. 6. Identified occount varieties from the PCA generalism collections which postess the genetic markers for each specific target. 7. Publications	UPD	Coconst breeden will benefit since they can utilize the newly discovered matters to target for specific traits during breeding and creation of new varieties.	01-Nov-17			2,698,108	2,698,108
Improvement of Coconut Varieties through Genomics, Genetics and Receding for a Competitive and Sustainable Philippine Coconut Industry	Project 4. Gene Expression Analyses for Oil Biosynthesis, Makapuno and LonoTraits	Poverty reduction and empowerment of the poor and vulnerable	Utilize gene expression analyzes for oil biosynthesis, Makapuno and Lono traits for generation of molecula markers	at least three (3) developed marker-specific for the gone identified.		Coconut farmers, coconut organizations and communities extension workers, LGUs	15-Jan-14	14-Jul-17	ONGOING	15,117,294	692,250
Improvement of Coconut Varieties through Genomics, Genetics and Breeding for a Competitive and Sustainable Philippine Coconut Industry	Project 6. Marker-assisted breeding in coconut targeting productivity and major industrial traits	Poverty reduction and empowerment of the poor and vulnerable	Identify and select for San Ramon Tall cy Orgulo and single cross-hystrids for regional release using marke assisted selection	At least two C(2) yinthetic varieties developed through MAS for dissemination to farmen; three (3) varieties—Outstanding Tall, San Ramon and PCA Hybrid, selected through MAS for dissemination to farmers	UPLB, PCA	Coconut farmers, cocourt organizations and communities extension workers, LGUs	15-Jan-14	14-Jan-19	ONGOING	26,943,679	3,992,159
Improvement of Coconut Varieties through Genomics, Genetics and Breeding for a Competitive and Sustainable Phillippine Coconut Industry	Project 7. QTL mapping in coconut for high yield oustanding quality of copra oil and other coconut majoy by-products	Poverty reduction and empowerment of the poor and vulnerable	Sterrify CTL and develop sequence specific DNA markers for yield and copra quality from an advanced PCR mapping population	Redymerbit DNA markers between parental population Genetic Inlange of coconut. Mapped DTLs for occount productivity, and yield/quality of copra oil and other nut major by- products dly Validated occount QTUs Reducts DNA markers for routine marker-assisted breeding derived from validated occount QTUs and underlying candidate genes	UPLB, PCA	Occount farmers, occount organizations and communities extension workers, LGUs	15-Jan-14	14-Jan-19	ONGOING	22,188,646	3,333,377
Improvement of Coconut Varieties through Genomics, Genetics and Breeding for a Competitive and Sustainable Philippine Coconut Industry	Project 8. Development of web-based breeding resource and Eco- TILLING towards insect resistance breeding	Poverty reduction and empowerment of the poor and vulnerable	Construct a genome-based database for coconul with breeder toold/browser and develop molecular markers targeting glandular trichomes and scale insect resistance	a) Password protected web based genome database of Cocon nuclinar consisting of sequence sessentiles and analysistations, genome web (SR marters and pre-installed breeder tools and genome browser. b) Characterised occount glandular trichome loci/genes tagged with sequence-specific DNA (SR GOCON) plants of the consort for glandular trichome genes and related printic factors. d) COCON plants are able of general section against cast insect infestation and SIP markers tagging the candidate resistance loci. 24 I least once (1) publication of significant research finding in 50 journal	UPLB, PCA	Coconut farmers, occonut organizations and communities extension workers, LGUs	15-Jan-14	14-Jan-19	ONGOING	62,511,670	6,907,894
Improvement of Coconut Varieties through Genomics, Genetics and Breeding for a Competitive and Sustainable Philippine Coconut Industry	Project Management and Coordination	Poverty reduction and empowerment of the poor and vulnerable	To determine the genetic and molecular mechanisms involved in coconut oil biosynthesis and in makapuni and toro phenotypes.	 a) Technical Progress Report, b) Reviewed project accomplishment; c) Monitored the project emplementation; d) Terminal Report 	UPLB, PCAARRD	Occount farmers, occount organizations and communities extension workers, LGUs	15-Jan-14	14-Jan-19	ONGOING	8,518,420	933,546
Improving Productivity and Local Utilization of Mungbean	РМС	Poverty reduction and empowerment of the poor and vulnerable	To effectively manage, monitor and coordinate the floor (4) project components of the muniplean program being implemented by eight (8) implementing/ cooperating agencies covering at least 6 Regions (Regions 2, 3, 4, 4, 6, 11 and CAB).	0	UPLB	Mungbean growers	01-Aug-15	31-Jul-18	ONGOING	1,664,840	550,796
Improving Productivity and Local Utilization of Mungbean	Project 1. Development of Varieties for Drought and Shade Tolerance	Poverty reduction and empowerment of the poor and vulnerable	To develop varieties of mungbean for drought and partial shade conditions. Security Objectives. Security Objectives. Security Objectives. The develop populations of mungbean with potential for drought telerance; 2. To develop populations and lines of mungbean for partial shade incarce; 3. To evaluate the lines under drought and partial shade conditions; and 4. To conduct genetic diversity analysis of selected mungbean genotypes	Tear I Varyiers selected for drought and shade tolerance. 2. Tolerant populations developed. Year 2 1. Population/ lines screened for drought and shade (on-station and onfarm) Year 3 1. F4 to F6 populations tolerant to shade and drought 2. Secondary (20) traits identified	UPLB	Rice farmers with potential to grow mungbean after the rice crop, upland farmers, coconot farmers, cassava farmers	01-Aug-15	31-Jul-18	ONGOING	13,101,161	2,983,711
Improving Productivity and Local Utilization of Mungbean	Project 2. Improvement of Mungbean Seed Production and Management System in Region 2, 3, 6 & 11	Poverty reduction and empowerment of the poor and vulnerable	his study generally sims to sustain availability of lagin caulity seeks of improved managhems varieties in painging rowing ames in Regions 2, 3, 6 and 11 coupled with improved seed storage technologies. Specific Objectives: 1. To evaluate and determine the most effective and economical hermetic seed storage technology for certified and farm—awed murpiden seeds; 2. To pilot set the improved hermetic seed storage technology. 3. To promote seed swing technology to 1002 00 farmers per region, 7. 6 resure local shalishilly of 6,650 kg foundation Seeds (FS) and 61,250 kg Registreed Seeds (RS) Certified Seeds (CS) of improved sumplems varieties Regions 2,3.6 and 11 or solar of 67,300 kg or quality seeds; and 3. To support commercial production of Improved varieties in expansion areas of at least 6,800 hectares in Regions 2,3,6 and 11.	Irear 1 Li Established seed storage facilities in participating DA-RIARCs (DACVIRC, DA-CLIARC, DA- WESNARCs and DA-SMARC). 2 Produced 67:30 tons of high quality and improved seeds varieties 3. Trained, organized and accredited seed growers. Vars 2 Limproved hermetic seed storage technology for certified and farmsaved seeds 2. Assisted 50- 100 tames per region on seed production. Vars 3 L. Established one rural seed center/ region (Regions 2, 3, 6 and s11). 2. 100-200 farmers-adopters per region on seed protage technologies 3 and tool 6,800 in seed production expansion area 4. Production and distribution of IEC materials on seed production.	DA-CVRC, DA-RFO 3, DA RFU 11, DA- WVIARC	Low income farmers in corn, rice, cassava, sugercane, & coconut- based farming communities. Agri- entrepreneurs (SMES)	01-Aug-15	31-Jul-18	ONGOING	9,841,488	3,462,692
improving Productivity and Local Utilization of Mungbean	Project 3. Improvement of integrated Crop Management System for Mungbean	Poverty reduction and empowerment of the poor and vulnerable	The project generally aims to rechors perd damages of manghean by 20% through adoption of improved integrated Crop Managemen (LOM) systems in order to increase crop yields. Specific Objectives: 1. To increase muniphean yield through induced infestation/damage of pod borer and use of available 8CAs and botanical extracts; 2. To reduce Cercospora leaf-spot disease of munghean through application or organic extracts, Trichoderms, 3. To reduce Cercospora leaf-spot disease of munghean through application or organic extracts, Trichoderms, 3. To reduce the disease of munghean through application or organic extracts, Trichoderms, 3. To reduce the efficiency of different fertilizers in make, rice, sugarcane cropping systems in increasing crop yield; and 4. To promote and transfer the improved ICM systems for farmers' adoption.	Tear 1 I. Screened BCAs (for pod borer and Cercospora leaf spot) 2. Fertilizer management and shipshim incudation for mungbean. Year 2 1. Tested (on-fam) BCAs and nuirient management systems 2. 30 farmers assisted per region (total of 120 farmers adopters). Year 3 1. Produced and distributed IEC materials on BCAs and ICM 2. Trained at least 30 farmers/region (a total of 120 farmers-adopters) 3. Developed and promoted ICM (BCAS, BEs, Organic Fertilizers, 10 Carageenan) for mungbean for different cropping systems	DA-CVRC, DA-RFO 3, DA RFU 11, DA- WVIARC, PAC	Mungbean formers; rice, corn and sugarrane formers, researchers, students and other stateholders	01-Aug-15	31-Jul-18	ONGOING	6,724,411	2,076,629

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
industry-Focused Technologies, Innovations and Knowledge for Livellhood, Income and Food Supply Enhancement (like for Life) Program for Sustainability of the Philippine Duck Industry	Project 3: Duck Egg and Meat Products Processing Innovations	Rapid, inclusive and sustained economic growth	L Establishment of the notificious value of balts and other duck egg product; 2. Identification of incircinal nutrients of balts and other duck egg product; 3. Inderstanding the Filipino history and culture on balds and other duck egg products consumption; 4. Use the inconvolved on on the nutritional values and functional attributes on furnitional studies or distributes of miteributes of values of ability and other duck egg products in developing innovative processing techniques for traditional and new duck egg products. 5. Develop processing and packaging techniques that will uplift the value and acceptability as well as shelf life of duck egg products.	1. Notines position and value of duck egg and duck egg products and unique dietary value of duck egg conducts; and unique dietary value of duck egg conducts; 2. Functionally of duck egg components that can be used in developing invocation duck products; 3. Processing and pudapping promodistors that value resure the quality and shelf-sile of duck egg products; such as balant and safete egg; 4. Philippine national standards for duck egg products; 5. Liniformity in quality of duck egg products for competitive princip and increase consumer preference over alternate goods; 6. Increase duck egg product consumption because of enhanced consumer confidence	UPLB	local duck egg enterprises, duck breeden, duck raisens	01-Aug-17	30-Jun-20	NEW	9,185,960	1,270,000
Innovative Systems in Advancing Halal Goat Production in Region 12 and ARMM	Project 1. Development of LAMP Assay and Quick Test Kit for Haram	Rapid, inclusive and sustained economic growth	This project will address the need to promote the acceptability of the hazan protocol by developing a school-based set list that can detect pork, dag and horse meat contaminants in cooled and processed load.	The September LAMF assays for raths, here and deep mast (33) 5.50 Regional IT.S Sellisation (15 Sellisation (1	USM	Coast raises, Processors. Assistance of the Coast	01-Jul-16	30-Jun-18	ONGOING	3,933,961	1,082,289
Innovative Systems in Advancing Halal Gost Production in Region 12 and ARMM	Project 2. Establishment of Halal Goat Enterprises thru the FLS-Halal GEM in Region XII	Rapid, inclusive and sustained economic growth	This project will promote the hallad assurance protocols to farmers, certifying bodies, LOU counterparts as well as DA.A.II and Alfred Properentative Monigon 12 and Advance the Fis-Halad GGM. This is to ensure the "halalness" or hallal integrity of products from production to processing.	Year 1 to Coptimized LAMP assays for selen, hore and day mast (23) 5.0 Regions 15 Seditation Stated on RS-Hald GM (24) 8 SSUS Jags-Mechanic Building as Hald Small Ruminants SSUS Jags-Mechanic Building as Hald Small Ruminants Ssupplements and Processing Center (24) 8 Local ordinance on the use of the Slaughterhouse of Processing Center (24) 8 Local ordinance on the use of the Slaughterhouse and Processing Center (24) 8 Local ordinance on the use of the Slaughterhouse department of the Slaughterhouse (24) 4 Sediment (25) 8 Sediment (25) 8 Sediment (25) 8 Sediment (26) 8	SKSU	Goat risker, Processors, Halal centryle goles, NCMF, Livestock policy-making bodies (DA-PCAF, BAI, NMIS)	01-Jul-16	30-Jun-18	ONGOING	1,803,884	879,969
Innovative Systems in Advancing Halal Goat Production in Region 12 and ARMM	Project 3. Institutionalizing Innovations on Halal Goat Production, QA and Processing thru Policy and Marketing Schemes	Rapid, inclusive and sustained economic growth	Project 3 will address the need to institutionalize policies to push halal goat enterprise development in Region 12 and ARMM.	Year 1 Si Opinited LMP assays for sinks, hore and day mast (33) \$50 Regions ISS scillators of trained on IS-Hall and Emplementation (20) at 100 farmers trained via ISS-Hall CEM (24) 8 SSU Agra-Michanic Building as Habit Small Ruminants Saughtenhouse and Processing Center (24) 8 Local ordinance on the use of the sleughtenhouse (44) Vaar 2 8 PN con halls goot Nuclabardy & quality assurance (20) 8 Philippines recommands for halls gast production, processing and marketing (23) 8 Ordinance on the satelliment of the hall gasteway in Gerdsin (20) 9 Marketing strategy for hall goot (23) 8 Prolifection or the emplayed for view, hore and dog ment (21) 8 Alapid tost kit for harm dectorio (23) 8 1 Field day - Techno clinic (20) 9 Marketing strategy for hall goot (23) 8 Data on Sansitivity and specificity of 1,40 PM hin PC (23) 5 Blad on the Marketing PC (24) 5 Data on Sansitivity and specificity of 1,40 PM hin PC (23) 5 Blad on the Marketing PC (24) 5 Data on Sansitivity and specificity of 1,40 PM hin PC (23) 5 Data on disclarated ment products using the LMPP assay (C3) 8 150 Farmer greatures From FS - Hall CEM (24)	SKSU	Goat risies; Processors Halal centripy goles; NCMF and local laboratories Livestock policy-making bodies (I/A-PCAF, BAI, NMIS)	01-Jul-16	30-Jun-18	ONGOING	1,574,008	771,687
Innovative Systems in Advancing Technology-Based Goat Production	Project 1.1 Organized Breeding and Selection of Individuals with Similar Morphometric Characteristics	Poverty reduction and empowerment of the poor and vulnerable	To produce SOI goats with uniform morphometric characteristics thru an organized breeding & selection program in selected farms in Region 2	Stabilished breeding program (t) Uniform quality of brokes 1 Reven' registration for CV signature goat 1 Reven' registration for CV signature goat 1 Reven' registration for CV signature goat 1 Reven' registration for CV goat breed 2 New nucleou, breeder farms for cVe goat breed 2 New nucleou, breeder farms for selected elite CV goats	ISU	Goat raisers; ivestock policy-making bodies	01-Apr-17	31-Mar-20	NEW	13,442,928	10,359,299
Innovative Systems in Advancing Technology-Based Goat Production	Project 1.2. Application of Assisted Reproduction Protocols in Support of the Establishment of CV Signature Goat Populations	Poverty reduction and empowerment of the poor and vulnerable	To develop an optimized protocol on ET in support of the establishment of CV signature goat populations	Sutility model (UM) for pregnancy detection list 1 2 prototype goat pregnancy detection list 1 prototype goat pregnancy detection list	ISU	Gost rissers FGASPAPI	01-Apr-17	31-Mar-20	NEW	6,306,420	3,542,276
Innovative Systems in Advancing Technology-Based Goat Production	Project 2. Development of Non-invasive Pregnancy Detection Kit for Goat	Poverty reduction and empowerment of the poor and vulnerable	To develop portable pregnancy detection kit for gost	1 prototype goat pregnancy detection kit	ISU	Gost raisers FGASPAPI	01-Apr-17	31-Mar-19	NEW	2,415,312	1,665,316
Innovative Systems in Advancing Technology-Based Goat Production	Project 3. Pilot Testing of the Breeder Stock and Product Traceability system for Goat in Region II	Poverty reduction and empowerment of the poor and vulnerable	To develop an SMS based system for monitoring breeder stocks and text the applicability of the developed traceability system for goats in Region 2	1.3MS-capable data monitoring system 1.setablished traceability system for breeders and chevon products	ISU	Gost raisers FGASPAPI		31-Mar-18		4,186,132	4,406,154
Innovative Systems in Advancing Technology-Based Goat Production	Project 4. Roll-out of Technology-based Options in Region I II, III, V, VII, VIII, XI, XII and CAR	Poverty reduction and empowerment of the poor and vulnerable	To promote goat-based technologies using RLS-GEM to Regions 1,2,3,5,7,8,10,11,12 and CAR	I copyright for FLS-GEM manusis Revised RT-S-GEM manusik Vol 382 130 MOUs signed with various stateholders for FLS implementation 6000 Sammers trained on GEM 300 facilitation trained on RS-GEM implementation	ISU	Gost raises FGASPAP LGUs and AEWs	01-Apr-17	31-Mar-20	NEW	16,377,296	4,156,382

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Innovative Systems in Advancing Technology-Based Goat Production	Project 5. Enhancement of Facilities for Efficient Technology Development and Delivery to Stakeholder	Poverty reduction and empowerment of the poor and vulnerable	To upgrade facilities for efficient development and delivery of technologies to stakeholders	I established ET aboratory I enhanced seme processing laboratory I mobile laboratory Partnership with other industry stakeholders on the use of the repro lab	ISU	Goat risiers FGASPAPI Goat products consumer	01-Apr-17	31-Mar-1	8 NEW	15,035,002	16,496,600
Integrated and Sustainable Development Program for the Shrimp Industry.	Project 5. Improvement of the reproductive performance of captive Penaeus monodon	Rapid, inclusive and sustained economic growth	a) To improve performance of domesticated males by nutritional manipulation, b) To improve formulated diets for domesticated female shring broodstock, and d To identify environmental factors that may affect percentage maturation, fertilization rate, and hatching rate of domesticated broodstock.		SEAFDEC	Shrimp growers and industry stakeholders	01-Oct-14	31-Dec-1	7 ONGOING	10,682,468	917,082
Integrated and Sustainable Development Program for the Shrimp Industry.	Project 7. Pathobiology and development of molecular detection luts for EMS/AHPND	Rapid, inclusive and sustained economic growth	The mean-rot study will fill the gap of informaction about the disease in the Philippins setting while also vaileding the data of other international reservotes conducted in Philand, China etc. It will also help raise awareness of the disease using the data collected in the country to educate the farmers on possible solutions and prevention practices.	Outputs of this proposed study include: 1. Identified batterial isolate that causes EMS in the Philippines. 2. General resignment of the batteria and the tooic gene. 3. Established pathobiology and mechanism of virulence. 4. Developed protocol/bits for the molecular detection of EMS.	UST	larger beneficiaries include: J. Shmip hatchery operation — early detection of AIPRNO in pond water or shrimp samples will incorporate the properties of the causative agent. J. Shmip farmers — molecular detection in the farm level provides a reliable surveillance protocol for the farmers to detect early sign of the disease; gaing angle limit on intiguite the problem. Description of the properties of the	01-Jul-15	30-Sep-1	7 ONGOING	9,028,784	2,271,192
Integrated and Sustainable Development Program for the Shrimp Industry.	Project 8. Biocontrol against EMS/AHPND causing agent using saline tilapia greenwater, immunostimulants and microbial floc	Rapid, inclusive and sustained economic growth	The present proposal involves developing Nobilities approach is relating account management biscords transaged involves the use of tables; present seen, before cleam regiments and emiphatics of transaction and the present seen and the second seed of the second seed of the second seed of the second sharing immune responses with the use of immunosimisations to manage the outbreak of IMS in the country. This proposed research is environment to provide solution in a preventive and ecological suppression approach in managing the problem associated with IMS/AHPND in cultured shrimp.	Abd-chains on how the pathogen is inhabited by Tlippia, discidated. Midworld upone and boards metabolites with pathogen inhabitory activities, identified and characterized. Lo Denvily of Tippia in green water reservoir trans that inhibits the pathogen growth in water, destribled. John Characterized and identified. Althoroidal species (Bacteria, Fungi) associated with fice with Vibrio inhibitory activity, characterized and identified. Althoroidal species (Bacteria, Fungi) associated with fice with Vibrio inhibitory activity, characterized and identified. Pith menchanism of which with the properties of the proper	UPV	Targe to emolicular include: Software plant of the control of the control of ASPNO in ponding and properties — early detection of ASPNO in ponding amplies will amprove the productively of the different hatcheries and prevent possible cross contamination of the causative agent. Software produced freeticn on the farm level provides a reliable surveillance protocol for the farmers to detect early sign of the disease; gaing angle limits no migrate the problem; publication of how to emanuals will be of significant use to these laboratories since the salve been tested under Philippine candition, in addition, these how be do manuals on disease detection in striving bil distillate the schildhimment of mobile disease diagnostic bilarozatories, which the government plans to do in the future. Hence will ensure the autasmability of the industry.	01-Jul-15	30-Jun-1	8 ONGOING	16,762,492	7,444,445
National Aquafeeds R&D Program	Field Trial of Protein Enriched Copra Meal (PECM) as Feed Protein for Tilapia, Milkfish and Shrimp Aquaculture	Rapid, inclusive and sustained economic	a). Asses the feed value as a feed ingredient of PECM in militáns, shrimp and tilapia cultured in a scale-up outdoor pond production system. b). Evaluate the great preformance, feed efficiency and biochemical composition of fish reared with diest containing PECM. c) Formulate optimized feeding guide in the use of PECM as feed ingredient in aquatic animal feeds.	formulated.	UPV	Fisher folia, fraders/ feed industry; researchers/scientists, the general public and science in general.	01-Apr-16	31-Mar-1	8 ONGOING	10,840,723	4,947,702
NATIONAL ACQUAREEDS RED PROGRAM PROGRAM D. IMPROVEMENT OF MICROALGAE PASTE PRODUCTION FOR AQUACULTURE	Project 1. Pilot-testing of microalgae paste as feed for shrimp and milifish hatcheries	Rapid, inclusive and sustained economic growth	General Objective: To determine the feasibility and validity of using microstigae paste as larval feed in millish and shriving batcheries. Specific Objectives: 1. To complete the larval rearing production cycles for millish and with principal paste. 1. To compare the eight of the complete of bringing and millish and shripping paste in shriving and microsigae paste. 1. To compare the nutritional impact of using the microsigae paste in shriving and middlish laves eight the conventional hardway protects. 1. To compare the nutritional impact of using the microsigae paste in shriving and middlish laves eight the conventional hardway protects. 1. To compare the operation of shadders considered the conventional hardway protects. 1. To compare the operational hardway with the fail components of ground food talk against a shadrow with reductor or no sigil staks. 6. To come up with a new protocol using sligal paste in millifish and shriving in hatcheries.	A new production protocol for milifolib & Johning hatcheries using microeligae paste 2. Microeligae Paste tested and ready for commercialization.	University of the Philippines, Visayas	Agazouthure industries and backyard hatcheries will be the target beneficiaries of the microalgae paste technology.	01-Jul-16	30-Jun-1	8 ONGOING	4,170,088	1,886,041
NATIONAL AQUAFEEDS R&D PROGRAM PROGRAM D. IMPROVEMENT OF MICROALGAE PASTE PRODUCTION FOR AQUACULTURE	Project 2. Development of packaging and storage systems for microalgae paste	Rapid, inclusive and sustained economic growth	General Objectives: To develop appropriate packaging, storage and transport systems for microslage paties. To conduct physics chemical, biological and microbiological guality analyses of the Specific Objectives: 1. To conduct physics of the microbiological paties of packaging material, design, methods, torage system and its combinations on the quality of microslage paties. 1. To optimize the objective of the patient of the micro slage patient. 5. To conduct excounts analyses to evaluate commercial, ecological and social viability of the developed packaging and storage systems.	I. Physics chemical, blochemical and microbial quality of microbige pastes and changes during storage at ambere and onlition of conditions, soppling pattern and significant quality parameters identified: 2 Appropriate package and storage system for quality microbige pastes. 3 Determined shell-fill 84. A protect for handling, packaging, transport and storage of the microbigid paste. 5. Comparison of cost and benefits of packaging introducing pastes or commercially available micro-bigat paste s.	University of the Philippines, Visayas	Local aquaculture industry, the community, the socio economic well-being of the Stake holders.	01-Jul-16	i 30-Jun-1	8 ONGOING	3,163,480	1,521,063
National Assessment of Coral Reef Environments (NACRE)	Project 1. Synoptic Investigation of Human Impacts on Nearshore Environments (SHINE): Coral Reefs	Integrity of the environment and climate change adaptation and mitigation	The Miligines at present has little information on the current status of its cond refer and how this has changed over the last feed cades. This is despite the giometria; assessment efforts between 150° and 1381, when more than 500° ned little were surveyed (Jomes et al 1581). This lost of any recent, large-acet, standistration enventries and assessments of coral refers in the country has also ment that at consistent rational policy and program for the consensation, sustainable use, and management of resh hay set to be developed. The objectives of this include. Mopping the distribution of coral communities using commonly used metrics such as law cord core and boldwershy, and their vulnerability and resilience to threats such as coral bleaching establish a monitoring system to allow the quantification of changes in the structure of these reefs, and allow for projections of future state based on various scenarios.	Nationwise assument on the status of coral reefs and recommendations on legislation, policies, and programs for the conservation and sustainable use of coral reefs and associated environments	DLSU	Rolloy makens, teademic institutions; coastal communities and their local governments	01-Jul-14	30-Jun-1	7 ONGOING	29,812,599	4,673,105
National Assessment of Coral Reef Environments (NACRE)	Project 2. People and the Environment: Assessment of Reef fish Resiliency and Associated Livelihoods (PEARRAL)	Integrity of the environment and climate change adaptation and mitigation	The widespread and continued deterioration of coal needs in the Philippines has large implications to bedieneity consension and the web being of created communities. Recurse of their strong association to their ballats, reef fighes are likewise affected by similar threats that face coral communities in the rest in addition to threats from its multiple values (e.g. natural harriage, florethes, sourtime, etc.). Information derived from this project will not only provide updated reports on the status of Philippine reef fishes, but wall also contribute or our understanding of heir scole occomic values, how they can be impacted by threats, and their resiliency given their multiple values to the people.	Status report of reef fish communities and siles profiles of fisheries and other inellibod in Tayli- Tayle, Surreguel, Tailmonage, Pollis, Sourage, Cinamires fisheri, Palleavan, Komboko, Marin, Isolia, Billan, Catela, Bohck, Sarrai Island, Leyte, and parts of northern and eastern Mindana of Establishment of a monitoring and evaluation-engouse and feedback yearth [MESF] is in Billians, Pangasians, Lan, Batangas, Sablyan, Mindoro Oxidental: Taylay and Tubbataha, Palawan; and, Island Garden Chry Sarnal. Additional monitoring stes will also be established in Visayas and Mindanao after the field assessment.	UPD	Noticy maken (local and stational). On-site partners (e.g. community), LGU, academe, NGO, etc.); Resource users (fishers, tourists, condirect researchers, etc.)	01-Jul-14	14-Sep-1	7 ONGOING	32,167,100	3,567,386

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
National Assessment of Coral Reef Environments (NACRE)	Project 3. Synoptic Investigation of Human Impacts on Nearshore Environments (SHINE): Reef-Associated Habitat	Integrity of s the environment and climate change adaptation and mitigation	here are relatively few studies conducted and being reported on the status of marginous and sagginss and different areas of the Philippines. Available studies conducted focused mostly on density and cover and less on the ecological and economic values of those ecosystems. The lab of spalls involved on the condition of these habitats via -vis their ecological and economic importance perpetuales the epiblizative nature of utilization of those valuable areas (Duante et al., 2008);	Sistus: reports on status of managerives and seagrasses in Usan, Statingess Edinica, Pargainlany, Taytaya, Palawant, Carmona, Carmanines Notret, Lond Andibolocy, Edonici (SaCos, Dianco, 18 Assessment of antiautal and human impacts on the study manageriors and seagrasses of the priority sites for the given year and their unlersability and realisticate to future changes due to these majasts; and 3 Establishment of a monitoring system in Mali, Davao; Sablayan, Mindoro; Bantayan, Cebu. 3 Beoconomic model for the management of associated habitats	DLSU	Red fisher, NPA Manager, coastal fishers, coastal communities, and food and fishing industries Other potential beneficiaries are red and coastal fishers, coastal managers and communities, and food and fishing industries adopting the exhinology in other area/region/province	01-Jul-14	14-Sep-17	ONGOING	9,990,288	532,008
National Assessment of Coral Reef Environments (NACRE)	Project 4. Watershed and Ocean Parameters for Assessment of Coral Reef Health	Integrity of the environment and climate change adaptation and mitigation	Management of cool reefs entails determining the boundaries of the management unit. Exticus affecting the table of coal reefs which are recruited non core at scale must begin than the size of the boul med or marine protected area (MAPA). Habitat or population connectivity is a function of larval dispersal distances and this can range from a few labiments to a few terms of kilometers. In some cases and for some species, this may even extend to a few hundreds of kilometers, the size of the scale	3 High recolution. hydrochysamic and connectivity matrices and wastenbed models for Surjaco del Sor Linnaus and Linnau, Twa-tenk, Northen Wages (Matablas, Northenben and Marindeum), Caliminanes Group in Palawan. 8 Field surveys for Tawi-tawi, Rombion; Caliminanes, Palawan. 8 Manuscript for publication	UPD	Local government environment managers, Covernment agencies (DENR and DA-BFAR). Marine science academic community	01-Jul-14	14-Sep-17	ONGOING	14,201,760	1,834,610
National Assessment of Coral Reef Environments (NACRE)	Project S. Coral Reef Knowledge Management System: Bayesian Belief Network Modeling and Remote Sensing	Integrity of the environment and climate change adaptation and mitigation	with all the studies done on coar refs in the Philippines and supported by knowledge from reefs in other countries, took on the developed for outsuits the condition of coardies, determine the refsiles impacts of different streams, and assess potential management scenarios from existing data and experts' howeviege. However, there are stall significant gaps in insovidege and data about many cord need processes. There is great uncertainty involved in evaluating reef health or predicting impacts of management interventions. A Bayesian Beleff Network (BRN) is one of the few tools that can integrate both quantitative data and qualitative information (e.g., from experts perception) to all love looks at systems more holistically than piscemeal. Developing a BRN model will help synthesize current innovledge of coral reefs in the Philippines which can be used to delentify stressors that need to be printifized and the valuate potential impacts of management scenarios. A BRN model can also add value to existing monitoring programs by synthesizing of different parameters. A BRN model can also add value to existing monitoring programs by synthesizing of different parameters. A BRN model can also add value to existing monitoring programs by synthesizing of different parameters. Exercise Local cover, file biotenss and composition, weretire active.	8 Report on the State of Philippine reefs and ecosystem goods & services based on available Brearbur and experts involvedge B.Complete BBN model using NetCa B.Case studies on application of the BBN model	UPD	Coral reef researchers, Local governments planning for coral reef resource use management; National agencies for evaluating national reef conditions;	01-Jul-14	14-Sep-17	ONGOING	6,707,996	1,197,692
National Dairy Goat S&T Program	Project 1.3. DG performance analysis and identification of managements options for improved productivity	Rapid, inclusive and sustained economic erowth	This project aims to [1] evaluate the performance of the different dairy goal geochypes in the country, [2] develops a selection certified for local allay goals, and [3] identify existing and promote management options on goal dairying to improve productivity.	10 info generated; 4 protocols established; 1 product developed; 78 people trained;	CLSU	Dairy goat industry	01-Jul-14	31-Mar-18	ONGOING	8,615,383	1,144,125
National Dairy Goat S&T Program	Project 2. Application of breeding methods for DG herd build-up in the countryside	Rapid, inclusive and sustained economic erowth	This Project hopes to: enhance the laboratory facilities of SU and DA RFO for efficient processing of goat semen for Al; conduct apublity building activities for researchers, farmer-cooperators and Al technicians; establish farm-level semen processing laboratories for community based upgrading of stocks and enterprise building; and roll-out the Al technology for dainy goat production.	3 facilities enhanced; 3 protocols established; 2 enterprises established; 128 people trained	ISU, CLSU, BISU, DA-RFU 8	Dairy goat industry	01-Jul-14	31-Dec-17	ONGOING	18,065,714	1,334,203
National Dairy Goat S&T Program	Project 3. Enhancing milk production thru Indigofera supplementation	Rapid, inclusive and sustained economic	This study therefore aims to validate the feeding value of Indigofera to dairy goats and other dual purpose breeds.	3 info generated; 1 protocol established; 2 products developed	CLSU	Dairy goat industry	01-Jul-14	31-Mar-18	ONGOING	5,376,846	920,641
National Dairy Goat S&T Program	Project 4. Development of diagnostic and management protocols for intramammary infections in goats	Rapid, inclusive and sustained economic growth	The project aims to develop diagnostic and management protocols for intransmary infections in days specificated. Specificate project sold (project project) and project project project statistics the epidemiological profile and risk faction of fall his risking spasts; (31) Develop and text interventions in the management of fall his diary goasts; and (3) Provide to dairy goast part such projects and projects and projects and projects and projects projects and raises that use of the developed field diagnostic kit and the protocols in the management of fall his goats.	1 info generated; 1 protocol established; 2 products developed; 14 people trained	CLSU	Dairy goet industry	01-Jul-14	31-Mar-18	ONGOING	5,887,713	643,366
National Mudcrab S&T Program: Program A. Refinemen of Mudcrab Hatchery Technology	selective breeding	Rapid, inclusive and sustained economic growth	To develop selective breeding techniques for the genetic improvement of Mudicrab S. serrata	Selection process for disease resistant and/or fast growing crabs established \$1 Response of creates to selection on good traits (disease resistant and/or good growth to disease (WSSV) evaluated \$1 Reproductive performance of crabs subjected to selection evaluated \$1 Genetic changes and liberateding in succeeding generations of selectively-bred stocks determined and minimized, respectively	SEAFDEC-Tigbauan	Target beneficiaries are the hatchery and pond operators. Researchers/scientists can also benefit from the results as basis for further studies.	01-Jul-15	30-Jun-18	ONGOING	9,052,102	4,273,217
National Mussel S&T Program - PROGRAM B. IMPROVEI GROW-OUT TECHNOLOGY FOR SUSTAINABLE MUSSEL INDUSTRY	Project 3 Causes and management of mass mortality in the culture of green mussel, Perna viridis. old. (Mussel Die-off Syndrome in Aklan: Cause, Effect and Management)		The project aims to investigate the possible causes of the die-off syndrome of green mused in Batan Bay. Alanka, specifical, Pains to characterize were quality of Batan Bay, determine the nature of spats source from the bay and relate the culture methods used in the bay and identify the pathogenic organisms	It Map of die-off occurrence in the mussed culture areas in the country. If dentification of the possible causes of the die-off syndroms Manqueda Bay and stante Bay Il Remedial measures to address the cause(s) of the die-off syndroms Maqueda Bay and Batan Bay III GIS maps where die- off/framss mortalities have occurred. If Management strategy to reduce/minimize mortalities of cultured mussels.	UPV	Private investors who plan to culture mussels 2. Fisherfolk who will be culturing mussel for supplemental livelihood 3. BFAR Extension Personnel	01-Oct-15	31-Dec-17	ONGOING	8,574,864	1,332,496
National Mussel S&T Program - PROGRAM B. IMPROVE GROW-OUT TECHNOLOGY FOR SUSTAINABLE MUSSEL INDUSTRY	Project 4. Modeling for site selection for expansion to new culture area (old title: Project 4. Towards Mussel-Based Economic Development Support Program (Mussel)	Rapid, inclusive and sustained economic growth	1. Develop an economical and effective method for induction of triploidy in the green mussel, Perna wirds. 2. Evaluate the principle of the property	I Map our of potential transplantation and grow-out site in Caggivan River Estany IT Stall Area of potential transplantation and grow-out site in Caggivan River Estany (Rss.) If Stored Area of survival rate of mususels at different locations in Caggivan River Estany IP Production potential of Caggivan River Estany (Meter Tota) IF Production Introglanting musels in new culture areas 3 Computer model on the dynamics of Caggivan River Estany in support to site selection.	CagSU	Mussel industry, private financial institutions, entrepreneurs, mussel farmers, researchers, extension workers	05-Oct-15	04-Jan-18	ONGOING	4,227,672	785,587
GROW-OUT TECHNOLOGY FOR SUSTAINABLE MUSSEL INDUSTRY	Project 5. Production of safe mussels using environment- friendly culture methods in sites near urban areas old(Pilot testing of Mussel Grow-out Technology)	sustained economic growth	To pilot test the raft and longline technology refined from Project 2.	S. Comparable analysis of states and long-line method for musels culture in Baccor Bay 3. Environmental Profile of Baccor Bay 5. Sealons, and seal environmental Profile Major 3 Protocol for Local Government based depuration facility Model 8 Policies and Institutional arrangement recommendations	CvSU	Beneficiaries include mussel farmers, entrepreneurs, vendors, middleman, processors, researchers, technicians/extensionists, Local Government Units, policy makers and consumers.		04-Apr-18		4,534,352	754,005
Nationwide Clonal Adaptation Trial and Innovation of Propagation Techniques of Newly Introduced High- Yielding and Promising Rubber Clones	Project 1. Technology Adaptation and Performance Trial of Recommended Rubber and Other Promising Rubber Clones in the Philippines	reduction and empowerment of the poor	The general objective is to enhance production of nobber through adoption of subber doses in the Philippiers, Septic Rejectives. To determine the performance of inferent nobber doses under different locations, to showcase nobber production technology for the adoption of nobber subserviolers in the Philippiers, is those and determine the productionally and often performed in planting trades in planting trades in Philippiers, and determine the production and produce the production of the Philippiers, the toward and determine the productionally and only the Philippiers, the toward and determine the production of the production of the add diseases performance of different nober; and to identify problems and constraints (if any) and provide recommendations for rubber production in six (ii) project locations.	 Conducted adaptability rist of high yielding clones for specific locations across the country, 2. Recommended high yielding clones suitable for various environmental conditions of the country. 	USM, WPU, ISU, SLSU, CMU, DA- ZPIARC	Farmer, Immer leaders, nubber stakeholders, nursery operators, researchers, funders, policy makers, and the whole nubber industry in the Philippines.	01-Mar-15	28-Feb-18	ONGOING	20,525,431	5,041,076

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Nationwide Clonal Adaptation Trial and Innovation of Propagation Echinques of Newly Introduced High- Yielding and Promising Rubber Clones	Project 3. Development of Efficient Techniques on Tissue Culture, Somatic Embryogenesis and In-Vivo for Rapid Propagation in Rubber	Poverty reduction and empowerment of the poor and vulnerable	The use of nikeler plants derived from somatic embryogenesis and other tissue culture techniques offer good pornise because plants developed from the method will eminimate the problem of sixts and scison accompanishing, budding, which is the most tedious work in the nurser, will also be eliminated and the supply of nurbers exemples could be programmed for available as altimes. Specific Objectives To develop an efficient tissue culture for rapid propagation in nurber through micro carting, somatic enthrogeness and in vivo, to set the previousment of tissue culture of other inserts and conference wideling rabber that could be procagated by tissue culture without changing the genetic potential and field performance of out dones; and to produce appropriate publication materials for dissemination to concerned industry stakeholders.	Developed techniques on min-seedling budding, hypocond grafting, and early green, grafting of nabber. Trained propagation is using their nonovative techniques for commercial innovative techniques for commercial groduction of nubber QPM.	WMSU, USM	Farmer, famer leaders, nüber skaleholders, nursery operators, researchers, studerb, polley makers, and the whole nüber industry in the Philippines.	01-Mar-15	28-Feb-18	ONGOING	7,514,797	2,453,757
Pinoy S&T Services for Farmers and Entrepreneurs (PSF) Program	Community Based Farm on Sea Cucumber Production in La Union	Rapid, inclusive and sustained economic growth	To rehabilists and increase the production of Holothurius solars in Ia Union through the adoption of sea canching technology for sea courselve. Specific 1. Di adopt sea ranching technology for Holothuris solars through the STGE program; 2. Specific 1. Di adopt sea ranching technology for Holothuris solars through the STGE program; 2. Specific 1. Did adopt the specific solar sol	Administrative Circular No. 248, series of 2013 re: size regulation for sea cucumber collection and trade.	DMMMSU	Sea cucumber growers and producers in Sto. Tomas, La Union	01-Jun-15	30-May-18	ONGOING	3,895,370	1,286,420
Pincy S&T Services for Farmers and Entrepreneurs Program (PSF)	S&T Community-Based Farm (STCBF) on Improved integrated Cop Management Practices (ICMP) for Caco Rehabilitation in the City of Mati, Davao Oriental	Rapid, inclusive and sustained economic growth	Generally, the project aims to rehabilitate the old and unproductive case farms of some selected ABIs and upscate their productivity through STG left that will showcare the improve integrated copy management practices (ICMP) in rehabilitating old cases plantations. Specific Objectives: 1. Transfer knowledge and MSIs 15 13 selected MSR cooperators the improve integrated copy management practices (ICMP) in rehabilitating old cases forms to become productive by 30%-60% or from 1 tig are tree per year 10.5-15.6 great per year year 12.5-15.6 great per year year 12.5-15.6 great per year year 12.5 great per year year year 12.5 great year year year year year year year year	Trained at least 15 ABB farmer cooperation on ICAP and rehabilitated at least 15 hectares of their old and unproductive cacso frem (17-3) between the control of their control o	DOSCST	Cacao Farmers / Agrarian Reform Beneficaries	01-May-14	14-Mar-18	ONGOING	3,391,195	473,209
Program A. Development of Broodstock and Hatchery Technologies for the Tropical Oyster Crassosrea inedale (Faustino, 1932) in the Philippines		Rapid, inclusive and sustained economic growth	To establish management techniques for Crassostrea iredalel broodstock that can produce larvae of high vability and high meat quality	Best conditioning site/method for broadstack management Coptimum environmental conditions and best diet for broadstack Improved egg production to > 1.5M eggs per spawning per pait	SEAFDEC	LGU, NGO and aquaculturists interested to culture mollusc Academic institutions benefit from data collection and publications from this study	01-Apr-14	31-Mar-17	ONGOING	3,693,458	273,653
Program A. Development of Broodstock and Hatchery Technologies for the Tropical Oyster Crassosrea inedale (Faustino, 1932) in the Philippines	Project 2. Refinement of the Larval, Post-Larval and it Nursery Rearing Techniques for Crassostrea iredalei to Produce Quality Seeds	Rapid, inclusive and sustained economic growth	To verify and refrire the copter hatchery technologies of other Southeast Asian countries in Philippines setting to produce a stable, sufficient, and good quality seed stocks of C. Ireddeli	Most efficient spawing technique Suitable microgal det and optimum stocking density Suitable necessarial det and optimum stocking density Suitable settlement inducers and substrates	SEAFDEC	LGU, NGO and State Universities hatcheries Oysters growers Academic institution from data/publication generated from studies and observations		31-Mar-17		5,625,038	387,774
(Faustino, 1932) in the Philippines	i Breeeding of Slipper-Shaped Oyster, Crassostrea iredalei	Rapid, inclusive and sustained economic growth	The project will characterize the genetic structure of these populations at different localities nationwide and generate specific molecular markers for selective breeding	Depinization of DNA extraction protocol Genomic DNA extraction (mantle, gills and goards) Purity estimation through spectrophotometry PCR protocol optimization for gene-nuclear DNA and microsatellite markers	UPV	Bivalve researchers, aquaculture sector		31-Mar-17		4,059,834	278,028
Program A. Enhancement of Hatchery and Nursery Practices for a Reliable Supply of Quality Seeds for the Green-lipped Mussel (Perna viridis) Farming.	Project 1. Refinement of Broodstock Maintenance, Spawning, Laryal and Spat Rearing Technologies for Sustained Seed Production of the Green Mussel (Perna viridis)	Rapid, inclusive and sustained economic growth	Refine existing hatchery technology of green mussels by focusing on (a) broadstock maintenance and spawning. (b) land renig, and (c) seed production, improve general has autovaled in Hatchery-produced seeds; Mass produce seeds for improvement of mussel population, and for possible expansion of culture areas.	A refined tethnology for brondstock maintenance and spanning, larval and spat rearing and mass production of seeds of the green muscles Prava usides with 0.00 16% survival of fertilized eggs to 0-shaped larvae; 50 to 60% survival from hatching to one datage/podiveliger stage > 5% survival from hatching to any spat stage or setting stage; Reliable source of good guality and year round availability of seeds for stocking to miprove production; 5spt production; 5spt production; 5spt production; 6spt production; 6sp	UPV	The musclindustry will benefit from this study as supply of seed stocks will be confunctually be available and help increase production.	01-Jul-14	30-Sep-17	ONGOING	9,012,912	1,105,481
Program A. Enhancement of Hatchery and Nursery Practices for a Reliable Supply of Quality Seeds for the Green-lipped Mussel (Perna viridis) Farming.	Project 2. Development of Remote Setting and Nursery Technologies for the Green Mussel (Perna viridis)	Rapid, inclusive and sustained economic growth	The long em goal of the project is to secure a reliable supply of hastnerp grounded sends to sugment mosts production. Specifically at aims to determine suitable size not technique of transport of the green mussel to remote setting area; to develop techniques for holding lavae to lead 'size (up to 3 months odd) in the numery prior to deploying to seeding ex-size outsubset efficiently and effectiveness of different spat collectors in the remote setting area and to develop techniques for rearing lavae in the remote setting area.	3. Identified effective spat collector that can yield a survival rate of 70-90N spats from set size prior to seeding to yow out farm 4. Technology of holding spat in the nursery prior to seeding them to grow-out farms with 60 to 8NS survival up or 40mm. 5. One or two nursery stations will established in selected areas either in Negros (Minigaran), or capit (liviam or Rouas City) or Samar (Jiabong) for spats produced by the project for seed dispersal.	- UPV	Beneficiaries include musuel farmes, entrepreneurs, vendors, middleman, processor, researchen, technicians/extensionists, policy makers and consumers.		30-Sep-17		6,486,093	916,792
Program A. Enhancement of Hatchery and Nursery Practices for a Reliable Supply of Quality Seeds for the Green-lipped Mussel (Perna viridis) Farming.	Project 3. Genetic characterization and selective breeding of green mussel, Perna viridis	Rapid, inclusive and sustained economic growth	This project aims to develop indicular markers to identify and characterize muscle population at different size identify a regular part of the season of the	 Specific nucleotide sequences as markers associated with specific musest populations. Genetic profile applerormance retail of nucleus population at different sites. Citries for selection of broodstock and molecular markers for parentage analysis and tracking of ramilles in hereding program. Offsprings of cross-bred organisms with specific molecular markers. Parentage and offspring analysis 	UPV	Beneficiaries include mussel farmen, entrepreneurs, vendors, middleman, processor, researchers, technicians/extensionists, policy makers and consumers.	01-Jul-14	30-Jun-17	ONGOING	6,038,526	754,184

Program Title	Project Title	Key Result Areas (KRA)		Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Cost	2017 PCAARRD GIA
Program B. Increasing Production and Improving Quality of Oyster Produced in the Philippines	Project 1. Establishment of Safety Quality of Oysters and their Culture Environment	Rapid, inclusive and sustained economic growth	This project generally aims to establish the sanitary quality of oytens and their culture environments Specifically, this solid point of the project of the	Sandrary quality of poyters and their culture Saterdari load in enring water & optier's meat Guantity of heavy metals is noyster's meat Optier culture sites examined categorized based on EU standards	SEAFDEC	Aquaculture industry and stakeholden -increased production after refining estilating culture techniques wil benefit opper farmers and help the country's aquaculture industry Government agencies and NGOs -refined culture techniques may be promoted by government refined culture techniques may be promoted by government culture of oyste culture of oyste culture of oyste in the country of operation culture in the country in the coun	01-Apr-14	31-Mar-17	ONGOING	6,048,533	422,634
Program B. Increasing Production and Improving Quality of Oyster Produced in the Philippines	Project 2. Refinement of Existing Oyster Grow-out Techniques	Rapid, inclusive and sustained economic growth	This project aims to increase slapper cyster production through refinement of grow-out culture technologies. Sepecifically, this study will: 30 determine the most efficient culture system for slipper cyster 20 determine the most suitable side for growing cyster 20 determines the most suitable side for growing cyster 20 determines the most suitable side for growing cyster which will be a suitable side for growing cyster and the suitable side of the suitable side for suitable side of the suitable side o	Most efficient culture system established S. See requirements for opster famming established Growth and source of wild and hatchery produced spats Best practices for opster farming established	SEAFDEC	Oyster farmers, fisherfolks, fisherfolk organizations, coastal communities, processors, traders and LGUs.	01-Apr-14	31-Mar-17	ONGOING	4,014,098	276,838
Program B. Increasing Production and Improving Quality of Cryster Produced in the Philippines	Project 3. Grow-out Culture of Slipper Shaped Oyster Using the Raft Long-line Method	Rapid, inclusive and sustained economic growth	Obtermines the describerations of ralf and longition method and different spat collectors forgrowing of optates; Determine the density of spat settlement on optier shelp as collection materials at spawning season; Determine the deriverwess of ralf and longine method as grow cut cutture technique; growing transplanted optater pasts from oppets shells as collection materials; Conduct cost benefit analysis for ralf and longine method ad grow optate faming using shells as collection materials at different study sites; and Develop an effective protocol in transporting and transplanting optate throughout some study of the conduct cost benefit of the conduct cost benefit analysis for ralf and longine method of optate faming using shells as collection materials at different study sites; and Develop an effective protocol in transporting and transplanting optate broodstocks and spats to grow-out culture.	Effectiveness of raft and long line method protocol Most efficient substrate materials for spat collection	SSU	agasicative indistry and stakeholders - identification of shabels eites and classification of all syster grow out culture sites, and establishment of deparation procedures thereby gooding systers sale for human consumption will not only benefit gyster famens but importantly help the country's agasolature industry Government agencies and NGO; - selection of sublastice industry of contract of the selection of sublastice less for growing systems and effective post-harvest treatments may be promoted by government, agencies and NGOs is stakeholders - generated calculations of the selection of sublastice of sublastice of the selection of sublastice and	01-Apr-14	31-Mar-17	ONGOING	3,394,747	220,938
Program B. Improved Grow Out Technology for a Sustainable Mussel Industry .	Project 1. Transplantation and Spatfall Determination of Green Mussel, Perna viridis	Rapid, inclusive and sustained economic growth	Determine water quality parameters of existing and potential mustel growing sites, Establish the stocking density for broodbooks and spats that will be viable for transplanting. Document growth and servind of transplanted troodbooks and spats, Improve existing method for spatial prediction, and Develop more afficient spat collectors.	Detailed characterization of sizables along for massed calcute, Protocol for transporting and transplanting muscule brookstock and sparts, More efficient spat collections (From 35 – 10 spat/10 coll to 2 – 5 spat/20 cm); Spatially prediction model; Manual for site selection, transport and transplantation of muscule brookstock and spats	UPV	Private investors who plan to culture mussels 2. Fisherfolk who will be culturing mussel for supplemental livelihood 3. BFAR Extension Personnel	01-Jul-14	30-Jun-17	ONGOING	7,151,096	917,895
Program C. Improvement of feeds and stock management practices for mud crab grow-out culture	Project 6. Improvement in the handling, storage and transport of mud crabs	Rapid, inclusive and sustained economic growth	The project will assess the current supply chain operating procedures in the major trading centers in the country and adopt methods to minimize the development of cnab defects like muscle emactation, weight loss, ammoniacal odor and other undesirable state of the crabs that can lower the market value.	S Mul can brandling, storage and transport conditions in trading centers/consignation in various areas in the country documented and appropriate brandling and response treatment recommended; If Methods for the detection and prevention of muscle emaciation or hagas' including the time until significant weight bits occurs identified; If Causes and methods to prevent ammonisate old one change in flavor developed; If Prototype boxes for built handling and retail developed; and If Code of practice for the handling, storage and transport of crabs prepared	UPV	Staget beneficiaries are the Musi crab farmers, traders, and exporters. Researchers/scientists can also benefit from the results as basis for further studies.	01-Jul-15	30-Jun-17	ONGOING	2,770,412	556,987
Program C. Post Harvest Program for Sustainable, High Quality and Safe Mussel Products	Evaluation of depuration and relaying technologies for Philippine green mussel at higher loading capacity	Rapid, inclusive and sustained economic growth	This proces ams to plots test the protocols in relaying and deputation of muscle in other collines sees in the country and a various conditions. It termits to improve the developed protocols for the elimination of microbial content for salf- and high quality Philippine gene muscles (Perna viridis) especifically, it intends to due the follower; I collast the performance of relaying protocols at different conditions of muscle growing areas 2. Evaluate the performance of depuration facility at plot scale (80, 100 and 120 kg input per task) 3. Determine the economic viability (including social acceptability) of using refined relaying and depuration technologies 4. Develop a generic 14ACCP-based muscle depuration quality assurance program	Year 1 1. Refined relaying protocols Year 2 2. Table on relaying stime based on bacterial load in mussel meat 3. Refined depuration protocols surging encirculating system/flow-through system with 80, 100 and 120 kg mussel injust per tainly 4, technical and financial feasibility including social acceptability of the technical and financial feasibility including social acceptability of the technicalies 6. Generic	UPV	Rendicities include mased firmen, enterpressur, window, middleman, processor, researchen, fendicinny/extensionish, policy makers, shellfish processors-exporters, and the consuming subition.	01-Jul-16	30-Jun-18	ONGOING	4,225,344	890,836
Regional Durian R&D Program: Enhancing Productivity and Sustainability of the Durian Industry in Southern Mindanao (Phase 2)	Project 1. Optimum Durian Tree Management for Increased Productivity	Poverty reduction and empowerment of the poor and vulnerable	General: To cross willdate the thinning and pruning techniques of durint for optimum yeld and quality of durina. 1. To determine the beat and appropriate thinning and pruning techniques of different varieties of durina; 2. To determine the commite benefits of pruning and flower-fruit thinning in durina; 3. To determine the peak of production of different durina varieties, and; 4. To determine the quality characteristics of different durina	1. Optimized fruit production through application of technology on the proper and appropriate cultural immangement on praining, and the proper and appropriate cultural immangement on praining. The production of the production	BPI-DNCRDPSC	Commercial durian growers Small scale-durian farmers Small scale-durian farmers A Wholesafery frailers / exporters Research institutions S. Research C. LGU's Planners	01-Oct-17	30-Sep-19	NEW	4,812,643	2,591,322
Regional Durian R&D Program: Enhancing Productivity and Sustainability of the Durian industry in Southern Mindanao (Phase 2)	Project 2. Optimum Fertilization to Enhance Yield and Quality of Fesh Duran in Southern Mindanao	Poverty reduction and empowerment of the poor and vulnerable	Cancera Europeve the yelds and quality of feeth durium in Southern Mindinaso through of the use of a fertilization guide developed based on the optimum mutrient standards. 1. Validate across location the formulated fertilizer recommendation in durian derived from the established leaf nativent concentration standards. 1. Validate fertilizer recommendation of the substitution of validated fertilizer recommendation of durium in Southern Philippines, and; 3. Generate a Gis sided soil substitity destination for durium in	Increased yaeld and improved drains fluit guality. Oplimium fertilities recommendation for durint based on leaf analysis solidated and verified, and, I. Gis sided suitability maps for durinn in Davao and Cortabato provinces.	USM, USEP, BPI- DNCRDPSC	Commercial durins growers Small scale durins framers Farm Contractors Wholesale frequency for the contractors Research institutions Research institutions Researchers Pageners Pageners	01-Oct-17	30-Sep-19	NEW	6,761,011	3,615,505
Regional Jackfruit R&D Program For Region 8. Towards Globally Competitive and Sustainable Jackfruit Industry in Eastern Visayas	Project 6. Design and Implementation of Communication Interventions for the Promotion of Jackfruit Technologies in Eastern Visayas	Rapid, inclusive and sustained economic growth	Design, implement and evaluate the communication interventions for the promotion and commercialization of jackfurt technologies and products.	Information on the needs (innowledge and practice gaps) and attitude of jackfulf farmers and processors related to jackfulf arobaction and post-production inchrologies as an output of the survey and FGO. If Produced, pretexted and fine-tuned IEC materials on jackfulf production and post-production exchanging the developed by VICARP and RRDCN. If Constartials (print, video, radio spoke, etc.) disseminated, trainings and special events conducted (e.g. pinala-malaki, matamini, maraming pulp, etc.) contest, etc. If MSC storles and Impact Indicators If MSC storles and Impact Indicators.	VSU	Jackfruit growers and processors	01-Jul-12	31-Mar-15	ONGOING	2,356,332	26,400
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project Ia. Mass propagation and pilot utilization of plumule-derived plantiets of Tall and Dwarf coconut varieties through CSet for Batangas and Quezon	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass procapage planule-derived concert glanting materials, primarily to establish new planning inconstationes and repeater the phono-dramaged, and consort scale insect-interest palms. It also aims to advance the agricultural biotechnology capability in the Philippines on the rapid mass propagation of occornut planning materials	Technology transfer & adoption of CICY Mesitor's protocol for in vitro culture of coconut using smalls: embryogenesis. Identified high yielding Tall & Deard rocomut varieties/hybrids responsive to the protocol Taxes culture liboardors upgraded and equipped for effective mass propagation of high yielding coconut varieties/hybrids.	UPLB	Smithold occaning growers who are dependent on occonut farming as their livelihood.	01-Oct-14	30-Sep-19	ONGOING	29,293,247	6,682,419

Program Title	Project Title	Key Result Areas (KRA)		Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project Lb. Mass propagation and pilot utilization of plumule-derived plantiets of Tall and Dwarf occonut varieties through CSet for Laguna, Rizal and Cavite	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass propagate plumide-derived cocount planting materials primarily to establish med- planting in costast lones and replant the bythopo-distanged, and cost scale insect-interdigalins. It also aims to advance the agricultural biotechnology capability in the Philippines on the rapid mass propagation of cocount planting materials	Technology transfer & adoption of CICY Mexico's protocol for in vitro culture of coconut using small cembrogenesis. Near Coconut varieties, and the coconut varieties, Phylhods responsive to the protocol. Tasse culture bloomton upgraded and equipped for effective mass propagation of high yielding coconut varieties, Phylhods.	UPLB	Smallhold coconut growers who are dependent on coconut farming as their livelihood.	01-Oct-14	30-Sep-19	ONGOING	28,593,331	6,589,098
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project 2. Mass propagation of plumule-derived plantilets of Tall and Dwarf coconut varieties through CSet for Region VI, VII, and VIII	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass prospage plumula-devived council planting materials primarily to establish now cleaning in coastal lones and replant the behood-changed, and common scale inceri-intested palms. It also aims to advance the agricultural biosechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CIC'-Mexico's protocol for in vitro culture of coconut using countie embryagenesis. Identified highly velding Tall & Deart coconut varieties/hybrids responsive to the protocol. Tabus culture libertory urganded and equipped for effective mass propagation of high yielding coconut varieties/hybrids.	vsu	Smallhold occorne growers who are dependent on occorust farming as their levelshood.	01-Oct-14	30-Sep-19	ONGOING	25,538,489	6,213,508
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project 3. Mass propagation of plumule-derived plantlets of Tall and Dwarf coconut varieties through Cset for Davao Oriental and Davao del Norte	Poverty reduction and empowerment of the poor and vulnerable	The project sims to mass propagate planuful-devived consort glanting naturally stimulity to establish no- solating in coastal bross and replant the hybroco-changed, and comort scale incert-interest palms. It sho aims to advance the agricultural bioschnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CICY Mesico's protocol for in vitro culture of coconut using somatic embryagenesis. In a contract of the co	UPM	Smithold occorning growers who are dependent on cocorust farming as their levelshood.	01-Oct-14	30-Sep-19	ONGOING	25,394,301	5,317,580
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project 4. Mass propagation and pilot utilization of plumule derived plantlets of Tall and Dwarf coconut varieties through CSet for Albay, Camarines Sur, and Masbate	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass propagate planuful-devived cocons (deating naturals) primarily to establish new channing in costal times and registin the hybron changed, and cocons scale insects -infested palms. It also aims to advance the agricultural biotechnology capability in the Philippiness on the rapid mass propagation of coconst planting materials.	Technology transfer & adoption of CICY Mexico's protocol for in vitro culture of coconut using smalls; embryageristic for the control of the	PCA-Albay	Smalfheld coconut growers who are dependent on coconut farming as their livelihood.	01-Oct-14	30-Sep-19	ONGOING	26,434,280	6,156,012
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project 5. Mass propagation and pilot utilization of plumule derived plantlets of Tall and Dwarf coconut varieties through Cset for Camarines Norte, Catanduanes and Sorsogon	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass propagate plumule derived coconut planting materials primarily to establish new planting in costatal zones and replant the typhono-dismaged, and coconut scale insect-infested palms. It also aims to advance the agricultural blockerhology capability in the Philippines on the rapid mass propagation of coconut planting materials.	Technology transfer & adoption of OCF Mexico's protocol for in vitro culture of occount using somatic embrogenesis described high yelding full & Dwarf occount varieties/hybrids responsive to the protocol Tissue culture laboratory opgraded and equipped for effective mass propagation of high yielding occount varieties/hybrids	BU	Smallhold occorul growers who are dependent on occorul farming as their livelihood.	01-Oct-14	30-Sep-19	ONGOING	25,262,092	5,385,481
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project 6. Mass propagation and pilot utilization of plumule derived plantlets of Tall and Dwarf coconut varieties through CSet for Zamboanga del Norte, ARMM and Region XII	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass propagate plumule-derived occourt planting materials primarily to establish new planting is ociated zones and replain the hyphono-diamaged, and cooms scale insect-infested palms. It also aims to advance the agricultural blockeriology applicity in the Philippines on the rapid mass propagation of occourt planting materials	Technology transfer & adoption of CIC+Mexico's protocol for in vitro culture of occount using semalic embragements in the company of the com	PCA	Smallhold coconut growers who are dependent on coconut farming as their livelihood.	01-Oct-14	30-Sep-19	ONGOING	27,691,134	6,599,509
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project Management Coordination	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass propagate plumule-derived occourt planting materials primarily to establish new planting in costati zones and replant the typhono-dismaged, and concert scale neact-infested palms. It also aims to advance the agricultural blockeriology appellity in the Philippenes on the rapid mass propagation of occount planting materials	Technology transfer & adoption of CIC ⁺ Mexico ⁺ protocol for in vitro culture of occount using somatic embrogenesis described highly deling fill & Dwarf occount varieties/hybrids responsive to the protocol Tissue culture laboratory opgraded and equipped for effective mass propagation of high yielding occount varieties/hybrids	PCA	Smallhold coconut growers who are dependent on coconut farming as their livelihood.	01-Oct-14	30-Sep-19	ONGOING	20,474,300	1,802,953
Role of Cooperatives in Technology Adoption for Improved Production and Market Efficiency in Dairy Buffalo and Coffee	Project 1. Role of Cooperatives in Technology Adoption for Improved Production and Market Efficiency for Dairy Buffalo	Transparent, accountable, and participatory governance	General Objective Acuses the role of cooperatives in technology adoption for improved production and market efficiency in manage, coffee and banana Specific Objectives: Specific Objectives: Specific Objectives: Specific Objectives: Objectives: Specific Objectiv	3 Technical bulletins * 1 Journal article 4 cooperatives One (1) Policy toner	UPLB	Decision-makers at PCAA880, DOST; Grantees of PCAA880/DOST funding	01-Aug-17	31-Jul-18	3 NEW	2,515,338	2,515,338
Role of Cooperatives in Technology Adoption for Improved Production and Market Efficiency in Dairy Buffalo and Coffee	Project 2. Role of Cooperatives in Technology Adoption for Improved Production and Market Efficiency for Coffee	Transparent, accountable, and participatory governance	General Objective Acuses the role of cooperatives in technology adoption for improved production and market efficiency in manage, coffee and banana Specific complexity. Specific complexity in the complexity of	3 Technical bulletins * 1 Journal article 4 cooperatives One (1) Policy toner	UPLB	Decision-makers at PCAARRO, DOST; Grantees of PCAARRO, POST funding	01-Aug-17	31-Jul-18	3 NEW	2,469,158	2,469,158
S&T-BASED SWEETPOTATO VALUE CHAIN DEVELOPMENT FOR FOOD IN TARLAC, ALBAY, AND TYPHOON YOLANDA-AFFECTED AREAS IN LEYTE AND SAMAR	Program Management and Coordination (PMC)	Poverty reduction and empowerment of the poor and vulnerable	The component aims to coordinate all the monitoring and evaluation activities of the different projects under the program, retrigent the plant, strangels and compositionents. It will coordinate pathway of all the necessary information and extension materials, ensure acceptability of all reports (behinical and financial) and closely coordinate the project leaders and personnel involved for smooth implementation of the program		VSU		01-Jan-16	31-Dec-18	ONGOING	3,043,125	335,293
SRT-BASED SWEETPOTATO VALUE CHAIN DEVELOPMENT FOR FOOD IN TARLAC, ALBAY, AND TYPHOON YOLANDA-AFFECTED AREAS IN LEYTE AND SAMAR	Project 1. Support Systems for Sweetpotato Value Chain Development	Poverty reduction and empowerment of the poor and vulnerable	1. To improve the design and implementation of the 5° value chain through got referenced mapping and scenario analysis. 2. To improve the validity of the 5° value chains through continuing 880 for increation are production (perceptions system), product development, mechanism processing systems, and consumer and production (perceptions). As the continuity of the conti	At least for (if SP food value clubs with value chain analys). If At least five (if SP varieties advocated by female for clue in such chain. It is proprient generated in rural communities. If success in 9 mes, as 300 less 15 serughend (sparieties generated in rural communities. If success is 19 mes, as 300 less 15 serughend (sparieties section (if section in rural confidence and in success food (if section in success f	VSU	AC Farmer-household/entrepressurs (enterprises in unban locations orgaged in pert-urban algorithms) EC Researchers), locations orgaged in pert-urban algorithms (EC Researchers), control EC (CLOS) and directed ships and effected areas in Legite Samue AC 59 growers in general Micro and small enterprenoun-	01-Jan-16	31-Dec-18	ONGOING	20,811,532	2,455,941

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
S&T-B&SED SWESTFOTATO VALUE CHAIN DEVELOPMENT FOR FOOD IN TARLAC, ALBAY, AND TYPHOON YOLANDA AFFECTED AREAS IN LEYTE AND SAMAR	Project 2. Sweetpotato Value Chain Development for Food in Tarfac	Poverty reduction and empowerment of the poor and vulnerable	1. To enhance the 9º valuer chain and scale out the 9º micro-enterprises (wine, pastries/cookes, jum/jetly, ooddes) in Traits and traget expansion such 2. To promote an enterprise collarse to famers, cooperatives and private enterprises for improved productivity and competitiveness.	3.At least four (d.§** Food value clarks with value chain analysis if A theast five (5) \$** unriettes adopted by fammer one in value chains. Employment generated in rural communities and optical distribution of the communities and the communities of the commun	Department of Agriculture Regional Field Uni	46 Local enterpreneurs (Farmer-Trader-Processors) 46 C farming households (regging) in production of reseprotate roots and planting materials whose Invelholds are limited by hishar-Jaden growing environment; incise pata and deserge pressury 81 C Local organizations, including farmers.81° cooperatives and watering of value-added swetpotato products 81°C consumers of quality of value-added swetpotato products 81°C Consumers of quality anowledge, linkages and support groups 86°C Local 80°S Providers	01-Jan-16	31-Dec-1	B ONGOING	6,531,270	588,670
S&T-BASED SWEETPOTATO VALUE CHAIN DEVELOPMENT FOR FOOD IN TARLAC, ALBAY, AND TYPHOON YOLANDA-AFFECTED AREAS IN LEYTE AND SAMAR	Project 3. Sweetpotato Value Chain Development for Food in Albay	Poverty reduction and empowerment of the poor and vulnerable	1. To enhance the SP value chain for products (fresh-based MP products, noodles, ice cream, specialty breads, pastries) with high potentials for commercialization and access to wider market niche. J. To strengthen the capacities of SP entrepreseurs, and the linkages/partnerships with the BDS provides.	S.At lest four (4) 9' food value chains with value chain analysis 3' At lest five (5) 9' varieties adopted by farmers for use in value chains. 3 Employment generated in nutur communities it increase 5's rang, or, 500 flows, 3' Provided 805 to the 5' value chains 8 throwindege products: 9' fivers, publication, at least 3 papers	DA Regional Field Unit V	ACL local entrepreneurs (farmer-traders-processors) ACC Farming households (sengaged in production of sweetpostor rosts and planting materials washe reliebtouke are limited by shafe-sleen processors (see the part and disease pressure) ACC Local organizations (including farmers)ACT Cooperatures and womental expensions engaged in enterprises for processing and marketing diseases of the processing and marketing diseases (and the processing and marketing diseases) and the processing and marketing diseases (and the processing and marketing diseases) and the processing and marketing diseases (and the processing and marketing diseases) and the processing and marketing diseases (and the processing diseases) and the processing diseases (and the processing diseases) and	01-Jan-16	31-Dec-1	B ONGOING	6,164,410	1,230,875
Smart Production of Milkfish Using Developed Technologies.	Project 2. Development and promotion of milkfish satellite hatcheries in major milkfish producing areas of the Philippines	Rapid, inclusive and sustained economic growth	The project aims to develop and set-up satellite hatcheries in selected pilot sites of the country. To date, the Philippine has a mumber of complete milition hatcheries in Lusus, Visayas and Mindensus Nouver, the Philippine has a mumber of complete milition has been selected by the control of the country of the countr	Established satellite hatcheries (Lucor 2, Visayas 5, Mindanao 5) -protocols and manual for operating satellite hatcheries from egg to fry production	UPV	The target beneficiaries of the project are the various sectors of milkfish industry such as hatchery operators, growers and feed millers – researchers can also use the results as basis for further study on milkfish physiology.	01-Dec-15	30-Nov-1	7 ONGOING	7,975,660	3,826,914
Tiger Shrimp (Penaeus monodon) Genomics Program.	Genomic Markers for Assessment of Inbreeding and Morphophenotype-genotype Association Mapping in Penaeus monodon	Rapid, inclusive and sustained economic growth	The general goal of this project is to expand the genetic resources necessary for sustaining a genetic in provement program for P. mondoon in the country. The specific objectives are the following: 25 axis so the variation of lay morphometric and morphological traits in local stocks of P. mondoon 250 generate genotypes from the same sumples used in phenotyping (Objective 1) using next generation sequenticing, and search for SPP markers that are correlated with selected traits 25 use the data generated (Objective 2) in province the quality of the reference genome of P. mondoon	It results of statistical analysis of morphological/morphometric data from P. monodon samples II preliminary list of correlated SNP markers II improved reference genome for P. monodon	UPD	shrimp farming industry, shrimp export industry	01-Jul-15	30-Nov-1	ONGOING	7,514,648	1,368,749
Value Adding and Waste Recovery for Industrial Tree Plantation Species (IPPS): Forest Nanotechnology Interventions and Bioplastics Production	Project 1. Production and Application of Cellulosic Nanocrystals from the Wood and Processing Wastes of ITPS	Rapid, inclusive and sustained economic growth	To determine using manarechrology possible new products and applications of nanocethulose from solid wood or waste materials derived from 3 ITPs widely planted in the Philippines	Abbitations: 2 articles in \$\text{Signamis-1}\$ technical bulletin - ctations of peer-enviewed articles - project terminal report - person - project terminal report - project - proj	UPLB	fammes planting faits growing timber - inductives in need of raw materials for need composite products. Downstream manufacturing enterprises using novel composite materials have been considered to the control of the	15-May-17	14-May-1	9 NEW	2,774,840	1,856,543
Value Adding and Waste Recovery for Industrial Tree Plantation Species (ITPS): Forest Manotechnology Interventions and Bioplastics Production	Project 2. Bioplastics from ITPS: Production, Characterization and Potential Applications	Rapid, inclusive and sustained economic growth	This project will deal with the utilization of lignin as a by-product of pulping ITPS which is a pre-treatment step in the production of cellulatic innonceptable. Laterat and characterise lignin from back liguor Modify and characterise the extracted lignin Produce blo based plastic using the unmodified and modified lignin in the form of composite film	Publications: Manuscript for publication to IS/Scopus-indexed journal, Production of information builetin, Feshicul papers presented in scientific conference buildings of the protected first periodiction of bioplastic with monositied production of bioplastic with monositied production of bioplastic with monositied production production of bioplastic with monositied production. Products: Ligarin based bioplastic (film/board) Products: Alforestry/Chemical Engineering student as RA or advises; Involvement of non-plain for plain by Project Saff Places and Partnerships: Collaboration with PhilliDLA, wood processors and/or its association Policies: Advocate the use of bioplastic from lignin derived from ITP logging wastes	UPLB	Forest-based industries, tree plantation farmen, manufacturers of polymers and plastics.	15-May-17	14-May-1	9 NEW	2,255,115	1,403,422
Value chain development and piloting of conventional vegetable production and marketing that meet food safety standards through adoption of internal control system (ICS)	Development of internal control system (ICS) for conventional vegetable production that meet food safety standards (IOEI Title Pesticide Management and Monitoring of Residues as a basis for an internal Control System for Conventional Production of Selected Vegetables to Address Food Safety)	Rapid, inclusive and sustained economic growth	It aims to plan and monitor pest and pesticide management strategy to be adopted as an internal control system for farmer duster percolating selected vegetables to address food adder concerns.	Indicates about preside residues 1) Article about rale pesticide residues 2) Article about safe pesticide management 3) ICS protocol 1) Expression 1) Patressing with the EUG, barangoy officials Places and Partnerships 1) Patressing with the EUG, barangoy officials People 2) Increased consumer awareness on safe vagetables 2) Increased consumer awareness on safe vagetables 1) Increased consumer awareness on safe vagetables 1) Increased consumer awareness on safe vagetables 1) Increased consumer awareness on safe vagetables 2) Increased consumer awareness on safe vagetables 1) Development of management plans for safe vagetable production and sustainability program to ensure long-term adoption Product 1) Prestocide Management Plans for selected vagetables 2) Internal Control System (ICS) for conventional vagetable production	UPLB	Farmers, consumers, and other stakeholders	01-0ct-17	31-Mar-1!	9 NEW	2,563,621	1,914,735
Value chain development and piloting of conventional vegetable production and marketing that meet food safety standards through adoption of internal control system (ICS)	Establishment of a sustainable and viable value chain for conventionally-produced safe vegetables (0d Title:Proface). Profitability assessment of adopting an internal control system (ICS) in the production and marketing of fresh and safe vegetables)	Rapid, inclusive and sustained economic growth	R aims to assess the profitability of conventional production and marketing of fresh and safe vegetables using ICS.	Product/Process 2 Alternative models for production and marketing of conventionally produced safe vegetables; 2 Packaging materials sample with printed barne and sleets; 2 Packaging materials sample with printed barne and sleets; 2 Packaging materials sample with printed barne and sleets; 2 Packaging materials sample with printed barne and sleets; 2 Package and partnership sample with printed barne and sleets; 2 Packaging materials sample with printed barne and sleets; 2 Packaging materials sample with printed barne and sleets; 2 Packaging materials sample with printed barness and sleets; 2 Packaging materials sample with printed barness and sleets; 2 Packaging materials sample with printed barness and sleets; 3 Packaging materials sa	UPLB	Vegetable farmers, farmer organizations, potential entrepreneurs, wegetable consumers, policy and decision makers, technology adoption, potential veneuron and regulatory organizations and industry associations.	01-Oct-17	31-Mar-1	9 NEW	2,463,379	1,737,778

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Adoption of Refined Commercial Scale Mud Crab Hatchery/Nursery System in Alaminos City, Pangasinan	Rapid, inclusive and sustained economic growth	Role out the technology on commercial mud crash hatchery/hursery system to produce and maintain a reliable supply of mud crash seedstock in Alaminos, Pangasiran and 3 nearby provinces.	Trained five (S) project staff from SN2 and GLO/Alaminos on the technology of ferfende commercial scale mud crab harbori/jurusery system. 5 regos MMA with GLO Maimore, Pargissinan. 4 . Produced 48,0000 quality crablets per year for nunsery and grow-out ponds using the technology For Produced and principle as less 1500 copies of Ilic Maretials on most don batchery/jurzery technology. 6. Promote the technology in costal towns and city of Paragistian (infraint, Dato), largues, Agno, Boloma, Ands, Ban, Sual, Luddor, Luppens, Brainely, Dappan Cly and San Fabbur) and nearby provinces of Ia Union, Ilocos Sur, Ilocos Norte and Zambales.	SU	The primary target beneficiary of the project is the local government of Alamino, Pangaissan. 13 The secondary beneficiaries are growers (grow-out and pond) in contact lowers and cities of Pangaissian and nearby provinces like ta were the various players in the local must call industry including potential adoptor-hatchery operators/ownen; (private & government owned), feed millers, and researchers who can use the results as basis for further study on must crab.	01-Aug-15	31-Jul-17	ONGOING	3,611,878	1,289,845
	Advanced Evaluation of Abaca Hybrids with High Fiber Vield and Resistance to Bunchy Top Virus Selected Areas in Catanduanes, Bicol	Poverty reduction and empowerment of the poor and vulnerable	General: This proposal aims to evaluate the hybrid abaca planning stocks produced through tissue culture technique and disseminate to interested abaca farmers in Catanduanes area to meet the potential demand for abaca flews for pulpa and sper industry. Specific Objectives: 1. To produce 10,0000 seedlings of abaca hybrids through tissue culture. 2. To establish two (2) hectares of abaca hybrids plantation and to determine the performance in three (3) selected municipalities in Catanduanes province. 3. To train abaca farmer cooperations and other abaca farmers on proper abaca production, fertilization, 4. To develop, produce and disseminate information, education and communication (IEC) materials and conduct promotional activities for abaca farmers and other stakeholders.	1. Production and distribution of 10,000 abuse seedlings in 2 hectares plantation in each of the 3 Up anticipating municipating collaboration province (Y1) 2. Establish 2-hectare abuse plantation (Y1) 3. Fifteen farmer's Opposedrates and at least 100 abuse farment trained for abuse a production, fertilization, fiber harvesting, garding and baling (Y4) 4. Developed ICE instraits (Dio Inteller, 2. Dio trodures, 2 video recordings) and conducted promotional activities (Y4) 5. One publication in refereed journals (Y4)	IPLB, CatSU	1. Abasca Sammers 2. Saskeholders 3. Abasca Processors	01-Nov-16	31-Oct-18	ONGOING	4,998,429	2,009,119
	Advancement of Science for the Sustainable Utilization and Comservation of Forest Genetic Resources of falcata and yemane	Rapid, inclusive and sustained economic growth	The project aims to build the level of understanding and techniques on the best use of evalible genetic base of lavy plantations project. Parameteris Glostaria (1) Nelson, and Genetical advance Rosb, in order to actioner a 20% increase in yield from plantations from the current 2013 yield level which is approximately 60 our No 1.	A. Plantation trials of unifice apendic materials/grownszers (logical of foliata and yenane (5.10 d. hg). I information on genetic density in all trusture of various processures (or original of foliata and yenane C. Teans of trained tree improvement technicians (240) to accomplish the long-term goal/objectives to support the country's wood industry	MU, ISU, UPLB	A. Tree Breeders B. State Universities and Colleges; students (graduate students in particular) C. Recipients of CBFMAs.	16-Oct-14	15-Oct-17	ONGOING	27,245,120	5,136,208
	Alternative Crop Shelter Design for High-Value Crops (Brocolli, Lettuce, Strawberry) Production in the Highlands	Rapid, inclusive and sustained economic growth	Assess crop heter design for improved durability and functionality suitable for specific highland crops and conditions, monitor interpreture & humbly variations riside and existite the crop heters over the growing seasons, evaluate the effect of shading on crop water requirements, realuate the performance of McV. under diff. surface covering mat'ls. in protected environment; pilot test developed prototype under actual field conditions.	Year 1.8 Features/Characteristics of focal greenhouse/crop better currently used in cop- production.9 Protopols on firmpowd cop-sheeth based on cope registerients and farmers protection.5 Information on the degree of climate regulation achieves with different cladisting particular copies of the degree of climate regulation achieves with different cladisting specific copies 2 Evaluated performance for 1.5t cropping season of selected high-value crops under different surface commitments in a protective demonstrated. Year 2.8 builated effect of shading on corp water requirements 3 Evaluated performance of HVCs grown under different structure-induced micro-climates during the 2 dorophing season 5 identified structures but suited for chiractery and broccol 1 refer 3 il dentified structures but suited for strawbery 9 is faablished economic viability of alternative crops shelter design for HVC production.	su	farmers involved in HVCs production and who are willing to engage (and invest) in protected collivation systems for newself ground control and an entire consumers and the production; small entrepreneurs; consumers	01-Jul-15	30-Jun-17	ONGOING	4,994,778	546,165
	Artificial Insemination as a Tool in Conservation, Sustainable Breeding and Utilization of Philippine Native Chickens	Rapid, inclusive and sustained economic growth	a general, this proposed project against to test and validate the artificial insemination (All technology as a cool in enhancing the reproductive efficiency of Philippine native Mickess and develop perime processing and All protocols that would match the native chicken breeding and farm management practices in the country. Specifically the proposed project with most C: Sharcetter the seem of Draze and Zampen rootstrs. I Determine the effect of seem processing and short-term preservation on the fertilities capacity of Draze and Zampen conscisis reasons. All seeds that proceed for chicken on place and Zampen here. It shallest the fertility and hatchediting of Draze and Zampen eggs fertilized this All. It shallest the connection of the processing and production.	hatching eggs of Zampen 1. Characteristics of Darag and Zampen chicken semen and spermatozoa 2. 5,000 DOCs of Darag and 5,000 DOCs of Zampen 2. Native chicken semen collection, processing and short-term preservation protocol 3. 4,620 table eggs of Darag and Zampen 3. Al protocol for Philippine native chicken 4. Chicken semen extender 4. Cost and return of producing native	vvsu, wmsu	institutional and private native chicken breeder farms Professors, researchers and students in poultry reproduction and breeding	01-Jan-16	30-Jun-18	ONGOING	4,998,900	1,654,995
	Assessing the Efficiency and Prospects of the Tunnel Vent Technology for the Swine and Poultry Industries in the Phillippines	Transparent, accountable, and participatory governance	The general objective of this proposed study is to assess the efficiency and prospects of the tunnel vent technology for the swine and poulty industries in the Philippines. 2. Document the extent of adoption of tunnel vent technology in the Philippines sincluding practices of the adoption. 2. Document the extent of adoption of tunnel vent technology in the Philippines including practices of the adoutry and the current innovation; 3. Determine the effect of the technology in the technology in the technology in which are adoptively production; 4. Assess the financial viability of the tunnel vent technology in which and poultry production; 5. Estimate the environmental benefits and costs associated with the tunnel vent technology and 6. Determine the prospects for a more widespread use of the technology in the Philippines	Year 1. State of the art analysis on the existing turned vent technology in the Philippines as but an extended with advanced in terms of designs, costing, contamination, adoption, etc. 2. Considering on the technical and environmental performance of turned west echnology in the extended providers of turned to the extended providers of turned vent technology in the value of the contamination of the extended providers of turned vent technology in the swine and posulty sectors, along with poly recommendations; 2. Synthesis of the proposet and policy reveal and direction on turned vent technology utilization in the Philippines to allow maximization and cost-savings. 3. At least 2 journal articles for publication in IS journals.	IPLB	Satine and Poulty industry operators in the Philippines Government regulators such as Department of Agriculture (DA) and the Department of Environment and Natural Besources (DDNR)	01-Jan-16	31-Dec-17	ONGOING	4,941,608	2,148,047
	Assessing the Impacts of Selected Projects under the ITP Program for Forestry Development in Caraga Region	Transparent, accountable, and participatory governance	 Document and validate the reports of accomplishments of the projects in their respective areas Assess the performance of the projects towards their set goals for the forestry sector Determine the environmental social and economic impacts of the projects Recommend measures with the performance of the projects that can be harnessed to secure sostalmability with respect to said goals for the forestry sector of CARAGA Region 	a. Documentation of the activities from the conceptualization and implementation of the program. Documentation for the inputs, solution, and outcomer of the regnant Documentation of the impact pathway and refer of adoption. Do date on adoption rate or growth rates in the number of adoption per years; e. Measurement of the pragram's exountine, social, and evaluation of the register is committed, but the recommendations. C. Estimation of the encountie returns from project investments, and g. Policy recommendations for the enhancement of the adoption of technology generated to further decepts the TP included.	arSU	The beneficiaries of the program would include (a) policy and decision makers, national R&D/S&T system and the funding agencies supporting R&D activities, and (b) researchers who are directly involved in technology transfer festernish and economic evaluation.	15-Sep-17	14-Sep-18	NEW	1,596,150	1,596,150
	Assessing the Implications of Various Resource Use and Management Options in Laguna de Bay	Transparent, accountable, and participatory governance	This project seeks to assess the implications of various resource management options for Laguna Lake.	L. Compehensive and in-depth understanding of the livelihood systems and level of dependency of communities on the lake; I. Implications of various resource use and management options determined; I. Importance of associative activities and efficiency of operations determined; 4. Set of specific policy recommendations	JPLB	Local fisher folks, LLDA, DENR, aquaculture industry	01-Nov-17	31-Oct-18	NEW	3,291,648	3,291,648
	Assessment of the Growth and Yield Performance of Rubber Planted in Non-Traditional Areas of the Philippines	Rapid, inclusive and sustained economic growth	To document the growth and yield performance of rubber grown in non-traditional areas in support to the envisioned nubber development and expansion initiatives of the Philippine Rubber Industry Roadmap		A-RFO 9 AMPIARC	Rubber staleholden, research institutions	01-Oct-17	30-Sep-19	NEW	4,647,401	2,544,344

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Assessment of the Impacts of the National Research and Development Program on Organic Vegetables	Transparent, accountable, and participatory governance	The project aims to determine the economic, social and environmental impacts of the National R&D on Organic Wegnables on the various stakeholders involved in the projection of organic wegetable seeds, fertilizers and pesticides and fresh organic vegetables in the Philippines	Documentation of the program outcomes and social, economic and environmental impacts Policy recommendations in relation to development, evaluation and promotion of organic vegetable production; Paper for publication	UPLB	Policy and design makers, national R&D/S&T system and the funding agencies supporting R&D activities; Researchers who are directly involved in technology generation as those whose filed of study included technology assessment Sevaluators of R&D programs	01-Sep-17	30-Nov-18	NEW	3,861,988	3,861,988
	Bamboo Grove Establishment for Climate Change Resiliency on Quinali "A" Sub-watershed in the Province of Albay	Rapid, inclusive and sustained economic growth	The general objective of the project is to rehabilitate the vulnerable segments of the Quisali "A" Sub- Watersheld through the SAFE project. Specific objective 1. To resease; the vulnerable vinerfurants bank; 2. To resease; the vulnerable vinerfurants bank; 2. To resease; the vulnerable vinerfurants bank; 2. To resease; the vulnerable vinerfurants bank; 3. To resease; the vulnerable vinerfurants bank; 4. To resease; the vulnerable vinerfurants bank; 5. To resease; the vulnerable vinerfurants bank; 5. To resease bankous exclusions and other appropriate planting materials for stabilizing the riverfurant banks; 5. To resease and vulnerable vinerable v	VRAN ONE: 1. Reassessment of the river vulnerable river/streams banks; producing maps and proper discurrentation; 2. MoSts forged between and among concerned stakeholders; 3. Action plans of the respective (EGD, including policy stafts; 3. Action plans of the respective (EGD, including policy stafts; 4. The bamboon surper stablished as USUS site, with 27,200 (DPMs and 25,000 potted vetiver concerns the state of t	BUCAF	The target beneficiaries of the project are basically the stakeholders of the six (LGU is that when their respective junctions of the Quisalla A sub-watershed, namely, the municipalities of Camaliga Ganiobatan, Day, Polegar, Libon and the City of Japon. In totality, the Quisals A sub-watershed has about 330 billometers stretch of mees including its streams and creeks.	01-Oct-16	30-Sep-19	ONGOING	5,870,013	2,074,331
	Biological Control of Invasive Pests of Coconut Using Predatory Black Earwig, Chelisoches morio (Fabr.) (Chelisochidae, Dermaptera) in S&T Community-Based Farm in Nagcarlan, Laguna	Rapid, inclusive and sustained economic growth	General To allowcase the effectiveness of S&T interventions in increasing the productivity and accome of immers in Nagaria, Isagan. Specific 1. to upscale adoption of the recommended technologies such as the use of biological control specific, e.g. C. morio, futurely the STGB fimodality 2. to enhance acity particularly nate of the specific production and use of BCAs like. Common 3. to encourage account growers to mass rear produce BCAs (e.g. C. m. or lot) in their farm to promote sustainability of the project. 4. to develop appreciation and ustain interest of occount Same root in the Common Same Production and sustain interest of occount Same root in the Same Same Same Same Same Same Same Sam	cocons growen in Nagorahus, Lapana 3. 30 rearing sets buy in occount farms in Brangey. Lawagium, Nagorahus, Lapana 4. Proper montroning of CBM and CLR release of IEAC le. g.C. more) and evaluation of released predator adopted by farmer respondents 5. Salsestine data generated as beautiful properties. The properties of the properties of the properties of the Methedia (adopted to the properties of the properties of the properties of the properties of the Methedia documentation of project implementation, e.g. infestation of CIDM and CLB and recovery of coconst palm-trees due to C. morio using audiovisual technology	UPLB	30 coconut farmers in Barangay Lawaguin, Nagcarlan, Laguna	16-Jan-16	15-Jan-17	ONGOING	4,086,624	1,886,365
	Biological Control Potential of Bacteriophages for 5nf Rot Disease of High Value Vegetable Crops in the Philippines (old title: Bacteriophage-mediated Management Approach for Soft-rot Disease of High Value Crops in the Philippines)	inclusive and	The main objective of this project is to explore the potential of bacteriophage as biological control agents for soft not disease of high value vegetable rough from various governments in the Philippines. The proposed research aims to it passes the diversity of soft-rot causing bacterial strains and their associated phage, if determine the jix circlevity of these associated phage against a spectrum of offin or associated enterobacterisceae, and ii) iii) assess the bio efficacy of the isolated bacteriophages in greenhouse and confined plots	1. At least two (2) publications in Skindoned journal 2. Baseline data on the diversity of bacterial pathogens associated with soft rot of high value vegetables in the Hippingnes 3. Baseline data on the diversity and specificity of bacteriophages associated with soft not Enterobacterioacse in the Philippings 4. Trained managers in the form of students 85 (1 85 Agriculture – Pleast Pathology, 2 85 Agricultural Bistechnology, 2 85 Biology – Microbiology) and 5 thor Pathology, Microbiology) and thort below research supported by the project 5. Upgraded Liboratory for teaching, research and extension through equipment acquisition and research collaborations	UPLB	Researches will benefit from the generated scientific information about the poetfast of bacteriophyses as shourted speetfast placetoriophyses as shourted speetfast placetoriophyses as should speed as the properties of the diseases of high value vegetables in the Philippines Coornament extension agencies (DA, SUC) will benefit from the gained scientific information for the management of oil not oil diseases in vegetables. Students and government agencies will benefit from the trained manpower that will be one of the outputs of this project.	01-Aug-17	31-Jul-19	NEW	4,999,478	3,141,451
	Biological Interventions in Coconut Scale Insect (CSI) Calamity Areas in Basilan, ARMM	Poverty reduction and empowerment of the poor and vulnerable	To provide biological control measures to rehabilitate the coconst areas infested by CSI for continuous productivity and income despite the losses brought by the infestations.	Regula and Services. a. 1.00 occums farmon and 10.002 personed trained b. 10 trainings conducted c. 58 town bloom to yourse. — 2 for Parasitods and 3 for the Predator Biocon lab with 6 setternal not cages. Partnerships: 3 SUCs, 2 lune Agencies & 5.0 GUS. Policy: 1 Provincial Resolution on the application of SCI Control Protocol Products: a 8,0000 Parasitods Harvested Per rep Minimum or 2 harvests per year @ 4,0000 Parasitods per harvest). b. 18,0000 Predators Harvested Per Year [Minimum of 2 harvests per year @ 90,0000 Perdators per harvest). Publication: 4,000 copies of IEC materials produced & disseminated (2 Titles @ 2,000 copies per tote).	MSU- Maguindanao	farmers	01-Apr-17	31-Mar-18	NEW	5,000,000	5,000,000
	Capability Building on Tapping and Use of Appropriate Coagulant for Improved Rubber Latex Yield	Rapid, inclusive and sustained economic growth	General: To optimize productivity of rubber lates havest and cup lump yield through capability building of 500 fames and 500 fames showing opinical of the Philippines, 100 fames supports from the 7 major rubber producing provinces of the Philippines 100 fame and showing fames from the 7 major rubber producing provinces of the Philippines for two years. 3) To develop printed IC materials on the documented best practices of rubber lates harvesting, cagasiation and handling.	Year 1.3 000 destitional tagpers (200 farmer-tappers and 20 trainer-tappers) from Zamboungs Stepuys, Agains dilk, Port Mot Cataban, Zambounge del Norte, Basilian, Buistinna and Laguna, trained at a maximum of 30 participants per training in 11 training sections. Year 2.7 270 destillates (Internet-tappers Nort Zamboungs Stepuys, Baillan and Laguna, trained at a maximum of 30 participants per training in 7 training subgray. Baillan and Laguna, trained at 6 print IEC materials on best practices rubber latex harvesting, coaquiation and handling in Ceglia, Filipso, tongs and Cebuson at 1,000 copies per version.	FPRDI	About 570 households from the 7 top rubber-producing provinces in the Philippines	01-Apr-17	31-Mar-19	NEW	7,613,331	3,040,748
	Capacity Building for Reef Assessment and Coral Taxonomy (Old Title: Training on Reef Assessments and Coral Taxonomy (TRACT))	Rapid, inclusive and sustained economic growth	1. Provide training and capacity building on coral taxonomy and the conduct of full reef assessments and monitoring methods. 2. Lipidate and upgrade the existing reference collections (for specimens of coral skeletons) 3. Complete the Red List of Philippine corals for the implementation of relevant provisions under RA 10654.	1. Taining modules 2. Updated Comomany website 3. Electronic field guides on 9 families 4. Refined Comony website 5. Refines survey manual and protocol booklet for reef assessments 6. Posters 7. Survey manual and protocol booklet for reef assessments 8. Refines decompliance produced by the production of the protocol booklet for reef assessments 8. Read list of Philingian produced and failed institution mainfeir for these senders	DLSU	Beneficiaries include primarily those involved in assessments and monitoring of oral refer most especially those in LGUs who have coral reef related work.	01-Oct-17	30-Sep-19	NEW	4,999,555	2,645,847
	CEPA (Communication, Education and Public Awareness) and policy review towards improving coastal erosion management in the Philippines	Integrity of the environment and climate change adaptation and mitigation	1. To promote awareness of various stakeholders on the problem of coastal erosion; 2. To enhance knowledge, waveness and regacy for coastal erosion management through the development of appropriate communication, education and public awareness materials for specific target audiences; 3. To reverse existing policies related to coastal erosion; and, 4. To Jeensily policy gaps and recommend new policies for coastal erosion management	End of the project Outputs *CPA materials (perfect, modular primers, teaching materials) *Capacitated tortiany teachers (members of the PCAARBO can and other SUCs) *Policy recommendations for coastal management that PCAARBO can advancate before a flegislative body *Vera*1 *Webgage *Policy Review *Training *Training *Fire tested CEPA materials *Fire Institute of CEPA materials	UPD	Tertiary reachers and students, MGA, LGUX, DRBRM practitioners, stakeholders, coastal residents, PCAAREO		14-Sep-18		4,999,357	1,464,896
	Coconui-Based Intercropping with Banana and Corn as Uveilhood Options for Communities in Brgy Camanishay, Tacloban, Leyte: An S&T Community-Based Farm (STCBF) Approach	Rapid, inclusive and sustained economic growth	General: To Improve the socio-exonomic conditions of the hydroconferced upland communities of Barnapy Camarani, Tackbain keyle through adoption of diversified comunities of and heribod options: Specific objectives: a) To increase income of the upland communities of Barnapy Camaranihay, b) To promote adoption of concerno based develored heribodoc options farming system to increase income, c) to enhance capabilities concerno based develored heribodoc options farming system to increase income, c) to soon and sostan externst of communities to engage in community-based diversified farming systems.	A lates 17 farmers trained on coconucl-based diversified farming suchnoisiges; If Stabilihed 1 coconucl narray province gloose 4,000 pt. (2014) coconut seeming society as the size of because of occonut farmin in Satem Visiyas; If Stabilihed a small scale communal organic fertilizen/wrimsia. (4015): A should 15 because shabilitated using the occonucl-based farming systems (coconut-basma and occonut-comp) and 31 increased income among coconucl tarmers by 2016-50% from coconuclassed levelhood options.	vsu	Around 78 Farmer Members of the Camansihay Farmers' Association	04-Jan-16	03-Jan-19	ONGOING	2,845,634	941,865

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Creating an Enabling Environment for a Vibrant Phillippine Bamboo Industry: Addressing Policy Constraints and Information Needs	Rapid, inclusive and sustained economic growth	a) identify, all relevant policies affecting bamboo and analyze their interlu/content. I) Examine the existing gaps and challenges faced in the implementation of the policies is rancius levels shorp the supply chain; c). Develop policy recommendation(s) to address the identified gaps and challenges; c) forulate the visibility of the prospose glory percommendation(s) by undertaking benefits out analysis and include the assessment of carbon footprint; e), undertaking benefits out analysis and include the assessment of carbon footprint; e), deducate the proposed new policy on hamboo to policy makers and stakeholders; and (b) benefits of the proposed new policy on hamboo to policy makers and dissemination system.	Policies: golicy (subject to review by stateholders) and submitted to DRNR/Congress Publications: a manuscript for publication in generative edge journal, terminal report, 2 IEC materials distributed Products: framework for database/IT-system on bamboo People and Services: Staff trained in best benefit cost analysis Places and Partnership: Conduct of 1 regional and 1 national consultation meeting/IFGD	UPLB	Bamboo farmers, manufacturers, policy makers, consumers, exporters	01-Jun-17	30-Nov-18	NEW	4,995,545	4,995,545
	Current Status and Resilience of Coral Reefs in Lagonoy Gulf, Eastern Bicol Deployment and Validation of SARAI Technologies and	Integrity of the environment and climate change adaptation and mitigation	The general objective of the projects to assess the current status and resillation of control estatus grows of the three by functional groups (herbivores, agine, and corall) and two environmental variables (habitat complexity and water depith) that are observed in ligit of recovery potential (prealisered) of coral reefs against future disturbances and the socio-economics characteristics in each study lites. The specific objectives are to conduct the social groups, and the social conductive status of the social conductive status of the social conductive status of the social groups, and conductive status of the social groups and distances to a social groups, and conductive status of the social groups in social conductive status of the social groups in the social groups and determined its influence on the overall resiliency of the coastal ecosystem. General: To deploy SARAI-developed technologies to a select group of farming communities and validates.	Industrial ELEC on coral reef reciliancy 18 Maps and databases Publication 18 2-3 erecent paper in 15 or peer reviewed journal 18 2-3 erecent paper in 15 or peer reviewed journal 18 2-3 erecent paper in 15 or peer reviewed journal 18 2-3 erecent paper in 15 or peer reviewed journal 18 2-3 erecent paper in 15 or peer reviewed journal 18 2-3 Submission of Abstract and presentation in two (2) prestigious international Coral Symposium on June 2018 at Cebu City, 10 Ale best 2-2 National conference presentation 18 At least 2-3 National conference presentation 18 At least 2-3 National conference presentation 18 At least 2-3 National conference presentation 18 At least 2-5 Copyrights on Maps and IEC matterials produced People Services 18 4 University personnel trained on reef assessment methodologies, data processing and analyses expecially in related to the refreshillency. 11 semine-workshop organized (af least 50 perticipants) for ICUs and the Abstract and Patherian Professional Company (1) and the State Com	BU	Regulatory Bodies such as BFAR and DDNR, LGU's of 9 municipolitic and 1 city and Researchers and Academicians of Particle State University (PASU) in Camarines Sur; Catanduanes State University (CatSU) and Bicol University		30-Sep-20		4,989,572	2,605,832
	Deployment and Validation of SARAI Technologies and Systems	Integrity of the environment and climate change adaptation and mitigation	General: To depty) sAMA developed technologies is a level group of farming communities and validate. 1.0 In seasons the register identification and seasons and seasons and seasons adoptive. 2. To depty SAMA Systems and Extinologies to 3 provinces in Lucro; and 3. To monitor the implementation/Localizability/deption of the technologies and systems through collection of feedback from validation activities.	Despinyed and validated SAMM technologies/systems (SAMS, WASS, SAMS, Footwelege Portal Capacitated (SLIA and DOST Regional Offices on SAMI technologies/systems Number of trained technicisms: at least 39 (SLI2 27 (9 MAO, 18 AgTechs) SUC. 6 Others: 6 Updated soll motivate monitoring database unpotential stages (and classification maps, production maps, production maps, production maps, technologies, company of the same stages of the same stages (and classification maps, production maps, production maps, composite dissipated; recommendations, number of MACEL Relations (specific thin the same stages) provided in specific recommendations, number of MACEL Relations (specific thin the same stages) provided in specific recommendations, number of same stages (specific thin the same stages) and suggestions from the diagetion setting stages (specific thin the validation activities). Sections and suggestions from the validation activities.	UPLB	PLANED Regional Consortia. Regional Agricultural Officers, Mensigal Agricultural Officers, Farming Communities and Academic	01-Nov-16	30-Apr-18	ONGOING	5,000,000	3,174,190
	Design and Development of a Programmable Dehydrator Machine for Herbal Tea Materials	Rapid, inclusive and sustained economic growth	General The project aims to design and develop a programmable dehydrator machine for herbal tea materials powered by sold emergy with destrict power back-up Specific - Determine the effect of the dying method presently used by local tea producers on the ideal demical material Geld enhanical materia include blackine composition, with therepartie effects a g. aslaolodi, floronoidi, saponinis, and tranning present on the herbal tea raw materialis. *Design and develop a programmable dehydrator machine for herbal tea materialis; *Louisuate the performance of the programmable dehydrator machine for herbal tea materialis; *Louisuate the performance of public production of the programmable dehydrator machine for herbal tea materialis; *Louisuate the performance production physicochemical and microbiological characteristics of the finished products.	The especied ozigus for this project will be a dehydrator machine prototype designed for hebal tack prings which can be electric or solar proserval. In the absence of other adultion, the display process can still be possible using the available electric power. Embodied in this dryer is a programmable circuit system to control and monitor the temperature and humidity of the drying system.	ISTU	The developed dehydrating matchine will be utilized by he hout ten producen or folio sportfailth the furthant farms (E). The E first be used as model for other entity engage in similar works wherein the year of be enth marking on the dehydrator machine powered by electric and solar energy.	01-Oct-17	30-Sep-19	NEW	4,983,905	2,924,802
	Developing the DOST-PCAARBD Innovation and Technology Center e-Library (DPITC e-Library)	Rapid, inclusive and sustained economic growth	Generally the grocet aims to: J. Make DOST F-CARSD the pioneering partner agency of DOST STII on transforming traditional libraries into e-library deptal library in the DOST system; 2. To equip DOST F-CARSD with customized digital tools and incombon on library reconcer management in establishing an experiental DOFTIC E-library Recommendation of the comment of the	Oser's Manual.	d d	The project benefits all who have a stake and interest in the ANNI sector (including shorter, and the general paids) but would be more relevant and appropriate for those working and involved in the sectors such a recenterine, R&O administrators, policy makes recently and appropriate for the sectors such a recenterine, R&O administrators, policy makes (sectors and legislative).		31-Mar-19		7,483,104	5,249,245
	Development and application of symbiotic-enriched fish feeds for improd production performance of militiesh (Chanos chanos) towards sustainable aquaculture and food security	Rapid, inclusive and sustained economic growth	The proposed project aims to produce symbiotic products and sixes their potential to improve the general health, immune status, and growther primarizance of millitish when supplemented in feech Sperficulty, this study aims to: 1. Obtain and characterize pure culture isolates of endogenous gut bacteria in millifaits; 2. Produce sufficient amounts of problotics in fluidy! cell mass from Jor use in feeding trials; 2. Screen the potential tocally-vasibles expect plants [1] to expect plants	Prote-type symbiotic products will be made available for further evaluation and scientific reports on growth and health response of millifish fed with symbiotic-enriched feeds.	LSPU	Beneficiaries would include the aquaculture industry in general, and specifically, thesmall-scale millifish cage operators	01-Jul-16	30-Jun-18	ONGOING	4,000,000	949,048
	Development and Use of Nanobiopesticide for the Control of Fusarium Wilt on High Value Crops	Rapid, inclusive and sustained economic growth	General: To develop a nanobiopositicide using metabolite/s from plant growthyromoting bacteria (PGPR) agains To develop a nanobiopositicide using metabolite/s from plant growthyromoting bacteria (PGPR) agains Fusarium ps. for the production of barans, tomato and ocumber. Specific 1. To formitted the control of the production and utilization of nanobiopositicide and 6. To apply for patent protection of nanobiopositicide production and utilization of nanobiopositicide and 6. To apply for patent protection of nanobiopositicide production and utilization of nanobiopositicide production of the production of nanobiopositicide production of nanobiop	Product. 3 Eromulated Associoposaticis for Fusarium witt control ® Application protocol of optimized nanobiospositicis formulation. Pater 18.1 Papplication of developed nanobiopositidis Pater 18.1 Papplication of developed nanobiopositidis people Services. 50 hor trained personnel in nanotechnology through training at SUCarbondale; furmer cooperators trained Publication: Dit Alext two Cipl publications submitted to referred journals ® Three broduces, dispect publication of nanobiopositicide for the control of Fusarium Will on tomato, ocusimber and Review and Patrickia. So Collaboration with UPLB-1PB, SUL-Carbondale, Lapanday Foods Corp. and farmers' group/s.	UPLB	® Farmers, researchers, students	01-Dec-17	30-Nov-19	NEW	5,000,000	3,535,934

Program Title	Project Title	Key Result Areas (KRA)		Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Development of a Comprehensive Mechanization Resource Mapping, Monitoring and Data Anbusk System (MSIASA) for Planning, Implementation and Policy Data Generation for Government Departments and LGUs		1. Develop a data capture system that will collect and consolidate relevant goo capture dayable more consolidate relevant good capture dayable recovered that from proporties software; 2. Develop a GIS based database analysis system that will allow storing, updating and adding of relevant generated dayable from the field that can be deployed in regional, provincia or (GLIS); 3. Develop general methodologics that will allow geo-spatial analysis and mapping that elil as it is monotoning of key mechanization indicators and growthe strategic information for future mechanization instructions. 4. Determine ley strategic policy information on the use, maintenance, monitoring and deployment of meeting mechanization interventions.	1. Data capture system using appropriate software; 2. Data base system dely mechanisation resource; 3. Scalable and expandable GS system for mapping, analysis and forecasting; 4. Prototype system that can be deployed nationwide	UPLB	Government Planners, LGUs, SUCS	01-Jun-17	7 31-May-1	B NEW	5,000,000	5,000,000
	Development of a Dry Format RT-Lamp and Test Kits for Classical Swine Fever Virus (CSFV) and Porcine Reproductive and Respiratory Syndrome Virus (PRRSV)	Rapid, inclusive and sustained economic growth	To formulate a dry format RT-LAMP protocols for CSFV and PRRS that could differentiate infected from vaccinated animals.	Information/knowledge on the genetic strain of CSF and PRISS virus field strain and the viruses used in the current vaccination of CSF and PRISS. Virus for the current vaccination of CSF and PRISS. Virus for the virus f	CLSU	RADDLs, SUCs and PVOs Selected private animal disease diagnostic laboratories Quarantine officers of the government Pograises that have access to international trade on export market	01-Jan-17	7 31-Dec-10	B NEW	3,551,929	2,151,097
	Development of a Drying system for Seaweeds	Rapid, inclusive and sustained economic growth	The general objective of the project is to assist seawed farmers whose livelificacid were greatly affected by the recent hydronic by developing an appointed order governor a norm efficient and fast driving of seaweeds. The said technology that will be developed will be suitable for village-level scale.	3 Prototype dryst design for seaweeds II Demonstration facility for drying seaweeds II Scientific publication and other IEC materials	UPLB	The main beneficiaries of the project will be the small to medium- scale farmers and farmers' groups that lack the technology to properly process and dry seaweeds. The project is expected to raise the quality of raw dried seaweeds to a level that can command better price, as well as reducing production losses and will improve ncome of seaweed farmers.	01-Sep-15	31-Dec-1	7 ONGOING	3,462,090	293,859
	Development of Decision Support System for Enhancing Climate Change Resiliency of Smillholder Upland Farmers in Selected Communities in CALABARZON, Philippines	Rapid, inclusive and sustained economic growth	The main objective of this project is to develop a decision support system that will lead towards building climatercelluler flaming communities in CAMABAZON. Specifically, the project aims to: 3) Assess biophysical and socioeconomic characteristics of the selected watershed areas in CALABAZON, 5) Develop a GS-based approferently fund capability mapping scheme (ACAMS); 3) Determine potential impacts of climate change on land capability distributions, of Inhance technical capabilities of selected IGISI in climate property of GS-based ACAMSOS Specommend adaptation strategies to faming communities for higher climate change-resiliency.	-Baseline information on biophysical and socio-economic characteristics -Gi-Saxed fund capability maps -Validated land capability maps -Validated land capability maps -Gi-Saxed fund capability maps with climate change xenario Turn-over (e. gain and loss) Maps of land capability -Capacitated members of elected tellish and local community in climate proofing -Publishable research outputs	UPLB	The beneficiaries of this Research and Development schinly will include the following: 1) National Agencies and Local Government Units (LGUs) – results of the project can see a so roing of fland dues for better planning. 2) Residents of Target study sizes (i.e., Smallholder Upbard Farmens) – meet informed commonly for endrance residency. 3) Polity National Studies and Decision Malates – results of the project can serve as a zoning of endeath of the project can serve as a local study of the project can serve as basis from the results of the project can serve as basis from the project can serve as	01-Feb-17	7 31-Jan-2	DINEW	4,980,220	2,531,802
	Development of Green Packaging Technology Using Eco- Friendly Materials for Rice and other Commodities	Rapid, inclusive and sustained economic growth	General: To identify organic raw materials and develop a process of converting raw materials to produce an eco friendly material for "green" capacity of the control of commodities. 17 to identify raw materials to be used for organic packaging based on: a bundance/valvaliability is. material characteristics 2) To develop a process of conventing raw materials for packaging that would result to: a broad preserved and the control of the process of conventing raw materials for packaging that would result to: a broad preserved and of the product of a broad preserved and of the product cost effective and materials to prevent cost effective and materials to capacity is to develop a process guide and of the product cost effective and materials to prevent to cost effective and materials or carbon footprints 3) To develop a process guide size and some cost of the cos	Year 1: Established process of converting eco-friendly raw materials into green packaging technology. Year 2: Produced a strong durable and moisture resistant organic packaging paper	ISTU	Organic/Specialty rice farmers (e.g. 7007A), ISAT U, Inventors, Researchers and consumers		30-Sep-1		4,929,172	2,653,148
	Development of Micro-propagation Protocol for Four Economically Important Bamboo Species in the Philippines	Rapid, inclusive and sustained economic growth	This project generally aims to develop an efficient, reliable and cost effective in vitro micro propagation of protectional propagation of four economically important beamboo species in the country. Specifically, it aims to: 1. To determine most suitable sterilization procedure for each bamboo species. 2 To determine most suitable sterilization procedure for each bamboo species. 2 To determine most effective bormonal combinatory/culture reliable for the propagation (and the propagation of the propagat	I Micropropagation protocol developed for the four economically important barmbos species. I Scientification procedure developed for each protocopies, and continued to a procedure of generating maximum number of shoots per soylant per subculture cycle per year for each barmbos species, 30 Cutture media capation of generating maximum number of nots per sepatine per subcluture cycle per year for each barmbos species. 3-8 Accimatosion procedure developed to establish seedlings capable of surviving in the field for each barmbos species. 3Not supporting territories capable of surviving in the field for each barmbos species. 3Not supporting territories fissurcultured barmbos and their genetic stability. Toxif of producing tissue culture plantiet, nursery grown plantiets and cost of field outplanting and maintenance for each barmbos species.	ERDB	L. Bamboo Farmers — Provision of quality planning materials at two coats 2 Bamboo indiversi-e-Provision of degrades supply of raw materials 3. Besearchers — Provision of information on tissue culture of the 4 bamboos	01-Nov-16	31-0ct-1	ONGOING	4,664,165	424,511
	Development of Multiple Strains of Plant Growth Promoting Rhizobacteria-based Biofertilizer for Sustainable Lowland Rice Production	Rapid, inclusive and sustained economic growth	The project will stiller bischemical and molecular biology rethrinques for profiling the soil microbial community deventing and for selecting the most competent PGPR strain shat may be combined with organic and inorganic fertilizers. To develop multiple strains of PGPR based biofertilizer for sustainable rice production and soil fertility in leve with integrated plant nutrition management strategies in bouland coxystem.	Developed multi-strain biofertilizer for lowinsh rice in Central Luson Decreased fertilizer usage by 25-358 Recommended method and rate of application of developed biofertilizer Agustrafile account incentists of raiser furnitures in the distribution of the control of the co	PhilRice	Irrigated lowland rice farmers; biofertilizer produces; researchers and student; government agencies and academic institutions	01-Oct-16		ONGOING	4,999,706	912,680
	Development of Philippine Native Chicken and Itik Pinas Breed Information System	Rapid, inclusive and sustained economic growth	Develop a web-based native chicken (Duzeg, Bolodano, Camarines, and ZamPerd) and layer dust (IP littin, IP Shaki, and IP Kayumanggo) genetic groups information system that would be available to all stakeholders.	Darag, Boholano, Camarines, and ZamPen native chickens, and IP Itim and IP khali layer ducks.	UPLB			7 31-Dec-1		4,999,075	3,271,175
	Development of Philippine Native Pig Breed Information System	Rapid, inclusive and sustained economic growth	The project aims to develop a web-based information system on Philippine native pigs accessible to Philippine native pig stakeholders	Standardized data collection and submission Online database containing information on physical characteristics and overall herd performance of native just from falings, Regnet, Isabela, Nueva Vizcaya, Marinduque, Bondoc Peeinsula, and smar *A test 1 scientific paper publication *Persentation of findings in scientific conference	UPLB	institutional farms/collaborator farms policy makers community development practitioners researchers livestock keepers/small hold farmers entrepreneurs	01-Apr-17	7 31-Mar-1		4,999,958	2,705,478
	Development of Philippine Penaeus vannamei Broodstock Selected for Enhanced Growth and White Spot Syndrome Virus (WSSV) Resistance	Rapid, inclusive and sustained economic growth	The project aims to produce our own Philippine broodstack of Pensanus vanuame to sustain its production. It will also help ease the procurement of broodstock in the country.	1. Culture of 4 foundation families of P. vanname from North America established in the Philipipine; 2. Optimized broadstake craning, breeding, and hatchery protocols for P. vanname in the Philipipines developed. 3. P. vanname broadstocks exhibiting traits of the terror performance and enhanced resistance against visibility produced for distribution to shiring hatchery operators in the Philipipines contained against visibility produced for distribution to shiring hatchery operators in the Philipipines.	UPV	Various sectors of the shrimp industry such as shrimp growers and hatchery operators	01-Jul-17	7 30-Jun-1	3 NEW	5,000,000	5,000,000
	Development of Strategies for propagules and Shoot Production of Three Bamboo Species in Pampanga	Rapid, inclusive and sustained economic growth	This project generally aims to develop strategies and establish baseline information for prospagles and bamboo shorts production. Through this project, it is expected to haverencyals pupely of bamboo potenting materials and year-round supply of bamboo shorts in Magaling and nearby areas. Septicifically, it aims 1.0. Determine the best method of prospagating bamboo prospagates; 2. Increase survival rate of prospagates from 50% to 70%; 3. Develop a suitable thinning regime for short production. At Determine suitable irrigation method for short production of the swaparities (illembous/business/short) for 6 red date shorts per clump in a year (vitrice and loss), 2500 to about 19 shorts per clump per year. Determine the set storage material and practices to prolong the short file of bamboo shoots prior to processing, and 7. Determine the exist of exproving propagate usival rate and in 20.6 Meetings, and 2.3. Which is approved propagate prior in processing, and 2.0. Determine the scot of expressing short production as well as producing shoots offsesson	Is identified the best method of propagating propagatis I improved survival rate by 50 to 70% is Determined the most appropriate method or illingston for short production I illientified in suitable thinking regime for shoot production. Illincreased the bamboo shoot production from 4 shoots per dumper payer to 10 shoots per dumper payer all feating field the best materials and method to profoling the shelf life of newly harvested pathoos shoots. It Produced ICE materials (1,000 copies) on propagate propagation (1,000 copies) on propagate propagation, thinking and water regime for shoot production and prolonging shelf life of newly harvested shoots.	PSAU	Bamboo is a marvelour resource that provides a myrisid of benefits for billions of people, Development of Damboor resource is economically assisting improversided people will exit the same time stabilizing enotible lospics and flood prowe usethreds. The ability to substratilishy accentuate rapid growth through intensive management for commercialization purposes magnifies its many benefits.	01-Aug-16	5 31-Jul-19	ONGOING	4,757,622	1,010,999

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Cost	2017 PCAARRD GIA
	Development of Tissue Culture Techniques(s) for Mass Production of Selected Bamboo Species	Rapid, inclusive and sustained economic growth	The project will (1) develop an effective tissue culture protocols for plantiet regeneration using shool/mobil outher, and multiplication through adulty soot and callus culture, and in vitro rooting using growth regulators of exnominally important bamboo, (1) develop effective techniques(s) in establishing tissue culture plantiets in inversy rutal plantiets are easy for planting the field, and its large sale production of planting materials, (3) test the survival for the tissue culture-derived bamboos established in numeries in comparison to conventionally propagated identified bamboo species in the field, and (4) determine cost of producing tissue culture-derived bamboo.	Year 1 & Fear 2 II Established an effective, reliable and measurable protoco for micropropagation (be best terilization procube plantle regression and multiplication protocol and plantlet establishment) in comparison to estiting conventional prospagation for economically important bumboo species in the Philippines. Year 2 R An effective protocol for establishing tissue culture plantlets in the nursey until the ready to plant stage for a war round availability. Cost analysis of producing tissue cultured bamboo. Packlication: John registerated bamboo in the field. Cost analysis of producing tissue cultured bamboo. Packlication: John registerated stridle and IEC material [Innchuren] Packlication: John registerated stridle and IEC material [Innchuren] Product: Tissue culture protocol on selected species of humboo Tissue cultured plantling materials Prot demonstration for for coplantlet discontineer culture plantlets.	vsu	Bamboo growers; Bamboo Industry	01-Nov-17	31-Oct-20	NEW	4,995,520	2,017,840
	DNA Barcoding of Selected Marine Fishes in Basilan, Sulu and Davao Provinces	Rapid, inclusive and soutained economic growth	The objectives of the project are to: a. Instate a DNA barrode library of economically and ecologically important fish species in Basilan, Sula and Down Provinces. But, Trans Trans and Down Provinces an		UPM	Academe, government sectors, fisherfolks and resource managers for the protection/conservation of marine fishes in the Basilan, Sulu, Tavi-Town and Tavai an	01-Oct-17	30-Sep-20	NEW	4,999,105	2,105,334
	Economic Analysis of the Demand for Technology Business Incubation (TBI) Services in Selected State Colleges and Universities	Rapid, inclusive and sustained economic	To determine the effective and potential demand for TBI services in selected SUCs.	technical support Berchmarking, Project terminal report, articles, Profile of technology generators, and policy/guidelines for TBI development	UPLB	DOST-TPD and IDD, SUCs, Agribusiness enterprises in the operational areas of SUCs.	01-Dec-17	30-Nov-18	NEW	4,805,210	4,805,210
	Effect of Nanomaterials on the Soil Microbial Community and Microbial Inoculants	Rapid, inclusive and sustained economic growth	General: To assess the impact of nanomaterials on the soil microbial community and microbial inoculants. Specific **To assess the effect of nanomaterials on the soil microbial community using culture-dependent and independent analysis **To assess the effect of nanomaterials on the soil microbial community using culture-dependent and independent analysis **To assess the effect of nanomaterials on the survival of gual-labelled PGPB inoculum strain in the soil and in the Principals of the Special Community (Community Community C	11. Changes in the bacterial and fungal populations in the soil Molecular profile of the soil bacterial community Gus A labelled mirrobal innoculum strain 12. Molecular profile of the soil bangal community. Identified microorganisms that were affected by the nanomaterials Information on the effect of nanomaterials on the survival of PGPB innoculum strain in the soil and in the misosphere Information on the effect of nanomaterials on the efficacy of microbial innoculants. Safety assessment of soil microbial community and microbial innoculants as affected by nanomaterials At least two scientific publications on the results of the research project	UPLB	- Regulatory agencies - Nanomalentalis producers - Researchers, student	01-Nov-16	31-Oct-18	ONGOING	4,954,985	2,026,610
	Enhancing and Operationalizing Intellectual Property (IP) Management and Business Development Office in Consortia Member Agencies	Rapid, inclusive and sustained economic growth	To establish and strengthening the capacities of technology transfer offices of RDIs in the AANR sector	1.9 BTSD strengthened to become TTOs in RDIs in Lauon 2.9 TTOs cashibited 3. At least 20 technology transfer staff rained on P management and commercialization 4.5 pi protection applications field par TTO per year 5. Inventiony matured technologies 6. Inventiony enters and product matching 7. 1. technology per RDI commercialized 8. TTO offices institutionalized	CvSU	technology wansfer offices and officers	01-Oct-17	30-Sep-19	NEW	24,224,458	12,641,829
	Enhancing the Promotion of the AANR Technologies Through Complementary Platforms	Rapid, inclusive and sustained economic growth	General Olychem. The project aims to strengthen the promotion of the DOST-FCAJRRO AANN Technologies through interactive fabilitis, Product Bazari, and On-ine Promotion. Specific Objectives: 1. To develop interactive-fedicalmenter orbibits more attractive to its target audience; 2. To create infolsament materials that will increase awareness of the general public of the contribution of SST to agniculture, squarks on anitrus recovers section; 3. To fast-track transfer/commercialization of technologies, products and services through techno demonstrations, technology exhibits, product bazari and online promotion.	Lindustrion Report 2. Upgraded Challet display system at DOTC with historation components 3. Upgraded Challet display system at DOTAT Placiples (Charlet with Interactive components 4.) DOTC and DOST-TAPI developed promotion plan, implementation and M&E report 5. Developed on-line promotion website and social media site 6. Product Bazzar 7. DOST Mobile Promotion LED on the promotion website and social media site 6. Product Bazzar 7. DOST Mobile Promotion LED on the promotion website and social media site 6. Product Bazzar 7. DOST Mobile Promotion LED on the promotion website and social media site 6. Product Bazzar 7. DOST Mobile Promotion LED on the promotion website and social media site 6. Product Bazzar 7. DOST Mobile Promotion LED on the promo	TAPI	The main beneficiaries of the project are farmers, fisher folia, policy makers and researches, while secondary beneficiaries includes students and the general public.	01-Oct-17	31-Mar-19	NEW	19,297,080	16,448,331
	Establishing patterns between Harmful Algal Blooms and weather phenomena in support of early-warning systems (Old Title: Linkages between HAB and Weather Phenomena)	Integrity of the environment and climate change adaptation and mitigation	The primary objective of this project is to determine the linkage of harmful algal blooms with weather phenomene, particularly this current RSNO. In particular, the project aims to: Analyze plantson succession, including the potential increase and decline of HAB organisms during the ENGO phenomenon (i.e., during and after the LI Ninc; before, during and after the LI Ninc; revenisor to normal conditions). * Analyze the phylicis chemical conditions to occurring with increases and declines of HAB organisms of the phylicis chemical conditions to occurring with increases and declines of HAB organisms of the phylicis chemical conditions to occurring with increases and declines of HAB organisms of the phylicis chemical conditions to occurring which increases and declines of HAB organisms of the phylicis chemical conditions to occurring the phylicis chemical conditions to occurring the phylicis of the phylic	• Firm series data on NAB organisms, other physiophetics and physico-chemical conditions through weather phonomens, particularly the EMDO * firms series data on physico-chemical conditions in the target sites through weather phenomens, particularly the EMDO * increased understanding of IABB in relationship to recurrent weather phenomens such as IABOO that can be used to orfer the textisting biophysical and early warning models for IABB and inform NAB response and management efforts * Validated and refined 6xNABAS	UPD	Bureau of Ribertes and Aquatic Resources (BFAR) - LIGHL 8 NGG - Shelfish industry, mariculture industry - Academe, researchers/scientists	03-Jan-17	02-Jan-19	NEW	4,989,376	2,629,688
	Establishment of breed registry system for purebred swine	Rapid, inclusive and sustained economic growth	General Disjective. To established breed registry system for purchased swine in the millippines that will ensure the supply and quality of breeder pigs for the local pig indicate. Specific Objectives: 1. To develop a national database for pedigree and performance information of breeder pigs. 2. To establish national breeder performance registry system for local purches that would allow realizing of individual breeder pigs within a breed. 2. To develop breed verification system and parentage testing procede for purched within 4. To promote the breed registry system to swine breeders and pork produces to enhance accessibility for superior breeder animals.	I freed Registry System and distaless for Purieted Landrace, Largeniths and Durn. If Pedigrace conditionates Breed Intelligation (1) and emission system. Thin improvable for form data recorders IT Protocol for system operations. IS election indices II Identification and ranking of genetically superior pigs within a breed.	UPLB	ASBAP members (Bireeder Farms) Academe Researchers Students Pork producers Consumes	01-Jun-16	31-May-18	ONGOING	10,000,000	2,001,430

Program Title	Project Title	Key Result Areas (KRA)		Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Establishment of Dairy Cattle Foundation Breeder Herd Thru ET Using Imported Pedigreed Frozen Embryos	Rapid, inclusive and sustained economic growth	The proposed R&D project that will be implemented thru a publicipativate participation between and among the NAD, PCC and private daily industry physics in envisioned for all NAD and the NAD (PCC and private daily industry physics in envisioned for all California and PCC and the PCC and	1) Initial inventory of pedigened dairy cattle to form the foundation breeder herd 2) Customerd ET protocol using from embryors 3) More profices thereincan to service dairy firms 4) Functional private public partnership in technology verification and application	NDA, PCC	1) Daily farm owners 2) Daily industry practitioners 3) Researches 4) Professors 5) Students	01-Oct-16	30-Sep-1	8 ONGOING	4,881,567	537,059
	Establishment of Forage Production Modules for Slaughter Goats in Bongshon and Lupao, Nueva Ecija: A S&T Community-based Approach	Rapid, inclusive and sustained economic growth	General: To project aims to establish community-based forage production modules to resure year-round supply of quality feets for greats and support for arm attention resort for the Technoman project on prefetted feets in Biospiton, Navier Lipis, Specific; 1.7 opmonte wider adoption of science-based technologies on Steep production for goal through the STGET insights; in Biospiton, Navier Sign. 2. To strengthen the capabilities of goal fament on recommended technologies to produce forage for a 3 does to strengthen the capabilities of goal fament on recommended technologies to produce forage for a 3 does production; and 3.6 flores of the strength of the strength of the STGET of the production; and 1.6 flores when the protection and empower the community participally the LGU of Biorgabon in promoting the establishment of 2hs forage modules as a goal based enterprise capable of producing; 4.5 dis RDM/year to provide feed for a 50-doe level goal farm and raw materials for foragebased pellet production.	1) Trained at least 30 goals famour. 3) Conducted at least 91 training. (Technologies on the cataloblament and interience of Engeleding production nodes. Technologies on improved goals management principle.) 3) Established two nutriens with a total production 300,000 seedings, 91, Established 2 community-based and 110,000 based fronge production modules with a total of 5 ha forage farm. 3) Produced 108.4 tots/ha of fresh forages and 21,28.4 of the project. 8) Established 2 farm dusters composed of 30 goat farmers.	CLSU	30 goat farmers	01-Nov-15	31-Oct-1	BONGOING	3,488,475	877,991
	Establishment of Rubber Nursery, Budwood Garden and Demonstration Farm in Cavinti, Laguna: An STC8F Approach	Rapid, inclusive and sustained economic growth	General Objective: The project aims to increase the productivity of robbet farms oamed by farmer-members of the Southern Taplage flasher Producers' Cooperative (PRES) in Cavint, Lagina and the independent robber farmes in the neighboring municipalities of the area within the provinces of OLABARZON (sependa) Lagina, Risi, and decision by promoting Science and Technology interventions through the Science and Technology Community Bassel Brains Approach. 1999 (September 1999) (Sep	la Established one accordited nüber mureny (1ha) and budwood garden (1ha) as an inconnecionenting program under the management of STRE, D. Sprained the feustates (pore in every province of CALMABAZON) of nüber farmers who are interested to pursue nüber clonal proteins of a province of CALMABAZON, of the formers who are interested to pursue nüber clonal statellands, management of STRE, D. Sprain, D. COT +VA, D. DRIVA, P. DRIVA, D. DR	UPLB	Southern Tagalog Bubber Productions** Cooperative (STRPC) members; 2, Residents of communities within Lagona and neighboring provinces of CALGARGON; 3, DT), DDN9, and the LGUs of Lagona and Carlina** I - Private restrictions and individuals who will venture on rubber production and marketing;	01-Sep-16	31-Aug-1	8 ONGOING	5,000,000	1,032,455
	Establishment of S&T Model Farm on Free Range Darag Native Chicken in Dumarao, Capiz	Rapid, inclusive and sustained economic growth	General: To develop and sharware the package of technologies on five range Native chicken production. Septicifially, the project aims: 1. To premote wider adoption of the full application of package of technologies to a trian technology convergence of five range native chicken or the existing poulty raises in the Province of Cipar; 2. To device increase farm production and profitability of five range native chicken restrictions. To strengthen through the full adoption of PIOT on five range Native Chicken production; 3. To strengthen language further being with farmer cooperators (from production to marketing); 4. To develop and produce (IC materials and video presentation of STMF on five range Native Chicken production POT; 3. To train poultry raises in the 33 barrangey of Dumano, Capiz.	I Stabilhord STMF on the range halve chicken production, 2 information on the productive and reproductive performance of the range (shime.) a Adopted the fall O'all and statistic and reproductive performance of the range (shime.) a Adopted the fall O'all and statistic technology convergence. 4 Obtained increase farm production and profitability of free range Naster-chicken—states respectively in the STMF. 5 Is stabilished inlegarings of the farmer cooperators developed and expanded (from production to marketing). 6 Granted Organic and Good Animal Husbandry Practice enfortations, 7 Developed, produced and distributed (IC materials including video production on STMF modality. 8. Trainings of positry raters in the 33 barangayy of Dumaran, Capiz.	CapSu	Poultry Rasers	01-Mar-16	28-Feb-1	8 ONGOING	3,765,472	1,882,736
	Establishment of Ten Hectares Abaca Hybrid Plantation at VSU and Evaluation of Fiber Quality for the Pulp Industry	Poverty reduction and empowerment of the poor and vulnerable	General: The general objective is to reinvigorate the abaza industry through enhanced and sustained development of abaza lynds for the puly industry. 2. To establish a ten hectare production area of hybrids (2 and 7), 2. To evaluate their fiber quality for the puly industry.	It Established IO Nectore area for the abaca hybrids. It Produced 16,000 abaca hybrid seedlings for the IO Nectore area. Stassessed and evaluated the abaca hybrids as to their fiber quality specifically its pulping properties.	VSU	3 Farmers/Farmer Cooperatives 31 Nursery Operators 31 Local Government Units 31 Abaca Processor	01-Nov-16	31-Oct-1	9 ONGOING	4,893,698	1,287,500
	Etiology and Management Strategies for Tapping Panel Dryness and Stem Bleeding of Rubber	Rapid, inclusive and sustained economic growth	This project aims to investigate the eliology of tapping panel dryness and stem breeding conditions in nubber. It seeks to establish the causes of these two conditions as it relates to nutrition, weather patterns and genetics (types of Goines deplayed in the field). The project in the one shall formulate amangement reommendations to avoid tapping panel dryness and stem bleeding in plantation.	1. Generation of knowledge on the cause of TPD and stem bleeding development of rubber. 2. A comprehense documentation on the practices of local farmers in managing the TPD and stem bleeding syndrom. 2. Establishment of comprehense trategies to manage TPD and stem bleeding of rubber. 4. Better collaboration among private rubber growers and concerned government agencies on developing strategies against TPD and stem bleeding of rubber.	JRMSU - Tampilisan	This study may benefit the farmers by letting them understand and avoid the factors concomitant to the development of TPD and stem beleding diseases. Intrihemore, the results of this study will boost the theoretical knowledge of students on disease management of Index in addition, concernd government offices, such as DA, and other research institutions will be provided with correct information to enable them to device scheme to manage TPD and stem bleeding diseases of rubber	01-Jul-16	31-Dec-1	B ONGOING	4,845,400	1,754,800
	Evaluation of mussel longline culture technology in non- traditional areas	Rapid, inclusive and sustained economic growth	This project will generally referre the lengther technology applicable to different vater conditions. 1. Determine yet be lengther technology applicable to different vater conditions, seed training, seed conditions, and conditions are discovered training. Seed conditions are described by and depth 3. Determine the economic viability and social acceptability of using the refined technology. 3. Develop IEC materials	S defined longine technologie applicable to offerent water conditions 3 Cost and return analysis of the longine technologies applicable to offerent water conditions 3 Cost and return analysis of the longine technologies. The conditions are supported to the condition of the condition of the conditions of the conditi	SSU	Multi-takers beneficiaries of the research are, shellfish industry players/fisherfolis/shelfish farmers; planners/policy makers/regulator/searchers (DeR/BRA/BOST) (16Us/SUCs, etc.). But basically all Filipinos are potential beneficiaries of a greater supply of affordable animal protein.	01-Jul-16	30-Jun-1	ONGOING	3,997,336	758,934
	Evaluation of vinegars as growth promoter and immunostimulant in the Pacific white shrimp	Rapid, inclusive and sustained economic growth	1. Chuschride the native vinegars in terms of organic acid contents, proximate analyses and bacterial composition; 2. Determine the effects of incorporating a vanial amount of native vinegars table and sas and apple cide vinegar on the pawth and fired filterion proformance of the Pacific white tahring; 3. Determine the effects of the 3 vinegars incorporated in the basal diet on the immune response of the white thirting against the pathogon Windows parahmedylicus. 4. Determine the effects of the 3 vinegars on the digestive enzymes of the Pacific white shrimp 5. Determine the effects of the 3 vinegars on the digestive enzymes of the Pacific white shrimp 6. Determine the effects of the 3 vinegars on the digestive enzymes of the Pacific white shrimp 6. Determine the effects of each vinegar profile after challenge with Vibrio parahemolyticus.	L information on total phenoids. (Bruenoid and volatile compounds; 2. Optimum distray levels of TV and VI 2. Optimum distray levels of TV and VI 3. Effects of the how sinegars on the immune response of the white shrimp against the pathogen 4. Effects of the how integars on the genes of the digestive enzymes trypain, chymotrypain and rapha amylase of the white shrimp 5. Effects of the 2 vinegars on the transcriptomic profile of the white shrimps following challenge tests	UPV	Fasherfolis, feed industry, researchers, scientists, general public and science	01-Aug-17	31-Jul-1	9 NEW	4,178,548	2,193,975
	Evaluation Trials on Different Control Strategies Against Paper Mulberry	Rapid, inclusive and sustained economic growth	The use of paper mulberry in the country is yet to be studied and the primary focus of this study is in its control. Objectives: 1. To consolute and evaluate different control measures that can inhibit the growth of paper mulberry; 2. To opsimize the application and concentration measures to control the growth of paper mulberry; 3. To assess the temporal effectiveness of the different control measures/strategies applied in controlling the growth of paper mulberry; 4. To formulate an initial protocol that best control the growth of paper mulberry.	Loulance the effects of different control measures applied: Agolimized right occurration application to control growth of paper mulberry; Assessment of the temporal effectiveness of the different control strategies; Acceptaged ESC materials Formulated best control measure to control growth of paper mulberry	BPI-LBNCRDPSC	tot owners, farm owners where presence of paper mulberry becomes a menace	01-Jul-17	31-Dec-1	7 NEW	300,000	300,000

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Field Verification of Natural Fungicide from Tasmannia piperita (Hook. F.) Miers against Alternaria brassicae of Lettuce and Phytophtora Infestans of Tomato (Field Testing and Piloting of Fungicide)	Rapid, inclusive and sustained economic growth	To propagate Tasmania piperita, patient and pilot the fungicide.	The biospesticide products can be recommended in use in Regions 10,11,12	CMU	Farmers, EDC personnel, vegetable and sugarcane planters	01-Oct-17	30-Sep-19	NEW	4,998,214	2,979,587
	Field verification Testing of Carrageean Plant Food Supplement Technology for Enhanced Growth and Induced Pest and Disease Resistance in Rice in Regions 2 and 3	empowerment of the poor	a. Efficacy of the product as inducers of resistance against fungro in inhered rice under location-specific field conditions. 3. Efficacy of the product as inducers of resistance in injeried rice against bacterial leaf blight (BilB); c. Efficacy of the product as inducers of resistance in rice insect pets such as green leaf incoper (Bil4), brown the product as inducers of resistance in rice insect pets such as green leaf incoper (Bil4), brown the production density of beneficial asthropoots. 4. To conduct carragemena multi-location demonstration that a farmers field in Cappara, N. Vivoz, Quirion, Isabela, Bilan, and Navea Eigle for two rice cropping seasons. e. To facilitate product registration at the fertilizer and Pesticle Authority (PPA) of carragemena based on established best inform transagement pactors forly and west cropping seasons. 5. To conduct technology promotion/commercialization of carragereran.	a. Patentable plant growth promoter b. Suitable: cop management practices for fice through application of radiation-modified carragement. Patentable process on application of radiation-modified carragement. Induced resistance against turingro, cutworm, and armyworm of selected rice varieties due to growth promoting potentials of radiation-modified carragement. e. Scientific papers and technology buildetis	II DOST III	Rice farmers, researchers, millens, traders, processors and other rice industry stakeholders.	01-Oct-16	31-Mar-18	ONGOING	4,965,985	2,694,521
	Fish Kill Mitigation Measures for Cage Aquaculture Systems in Buhi Lake and Magat Reservoir	Integrity of the environment and climate change adaptation and mitigation	To develop a practical and low cost mitigation measures for cage aquaculture systems in lake and reservoir.	It Early warning system if fishalf midgation protocol it Manual of operation for fishalf midgator and good equactivity practices 17 Initings conducted for Local Government Units and fish cage operation/fishfarmers in Albay and stabels	BU, ISU	Aquaculturist, researchers, academe, policy makersand fisherfolis in target sites: Buhi lakeandh/lagat reservoir, etc.	01-Oct-16	30-Sep-18	ONGOING	10,000,000	4,350,729
	Gender Responsive Sustainable S&T Based Uvelihood on Tilapia Cage Cuture and Fish Processing for Low-hocome Households in Coastal Barangays of Los Baños, Laguna (Phase 2)	Poverty reduction and empowerment of the poor and vulnerable	1. To determine gender norms, note and gender issues that limit participation and economic empowerment of wome and men in coattal labe brangapy. 2. To appactate men and women of LGU-B and slaps is finamers on gender responsive \$AT based hostileod on this place quitinize and filt processing the control of the processing of the processing of the processing and marketing allows. 4. To facilitate the exhabilitation of filt farmers or fish processors' organization of cooperative. 5. To enhance collaborative efforts and networking among various stakeholders for technical, financial support and market linkage.	1. 10 Training on Good Aquaculture Practices and Enterpreneurship (Product Development, Packaging and Labelin, Management, March Cach Thow (Financia) Management, and Sides and Marketing) 2. 50 fishers and 3.00 women view rote of liquid varies of the Financia Sides and Marketing) 2. 50 fishers and 3.00 women view rote of liquid varies of the processing from FACA-880, and SiAR among others FACA-880, and SiAR amo	Local Government Unit, Los Banos	Talapia Riu Cage Culture: Direct beneficiaries of this project would be 50 families of film famours; father, moting, grand parent, children above 18, senior citizens within the family for the control of the control o		31-Oct-18		3,000,000	901,182
	Geophysical Coral Mapping	Integrity of the environment and climate change adaptation and mitigation	The Philippines have not thoroughly explored its deep sea water, the recourse it holds and the potentials of these recourse for future society economic benefits. It is an intellist tep to explore deep sea resources particularly the country's deep sea consis. 3. Deep sea explorations in other countries have revealed unexpected diversity of the coral ecosystem on continental shelves, slopes and older systems. It is important for the Philippines to infailte the same activates before temper countries start there extinces within the country's emforts, sources the countries of the countries start there extinces within the country's emforts, and provide habitat for fish and inventebrates. It is not remote as well that they may provide resources with bloactive compounds essential to the planmaceutical industries.	1) Detailed bathymetric chart of a portion of the Ago Recf. 2) Substrate may of a portion of Ago Recf. 3) May of portion of Ago Recf. 3) May of portions desired sites in Ago	UPD	ODNR, BFAR, Biodivenity researchers, coastal community	01-Jul-14	30-Sep-17	ONGOING	37,588,480	2,125,560
	Germplasm Conservation of Select Indigenous Forest Tree Species in Mt. Makiling Forest Reserve	Rapid, inclusive and sustained economic growth	sorder to conserve gemplase of indigenous (endagened and threatened) forest trees found in Mt. Makking forest Reson, the project specificity) sime: 1. To identify and select quality mother trees of indigenous forest tree species as potential sources of superior quality seeks for gemplase noticebox. 2. To produce quality planting materials of selected 25 indigenous forest tree species in Mt. Makilling forest Reserve; and 3. To establish seedling seed orchards (SSO) for the selected 25 indigenous forest tree species at the UP Land Grant (Laguns-Quezon), including monitoring and evaluation.	lear 1 250 mother trees geo-bagged from the 25 selected species and seeds collected from 15 species based on phenology schedule (please refer to Table 3) MOAD between UPLB CFNR and NPGRI, for geometric contents of the process of t	d	The project is expected to benefit the College of Forestry and Natural Resource frough provision of scientific basis for conservation of select indigenous species in the MMRT. To a larger extent, the vision to establish a vable seeking seed orchard threatened nedgenous forest tree species will help the conservation of other genetic resources and later will be the source improved quality seek for tree breeding programs for these species of the genetic resources and talker will be source improved quality seek for tree breeding programs for these species called the species of the species		28-Feb-19		4,990,000	1,430,027
	GIS-based Inventory and Sustainability Assessment of Rubber and Cacao in Major Production Areas of the Philippines (Old Title: GIS-Based Inventory and Sustainability Assessment of Philippine Rubber and Cacao in Selected parts of the Philippines)	Rapid, inclusive and sustained economic growth	The project focuses on the development of GIS-based data management framework for Philippine plantations of rubber and caco. Specific footness; a) Generate a national deg en-information on the production ness for subber and caco through GIS-based invertory; b) develop a national database on the locations of major plantation and production areas of rubber and caco in the Philippine; and c) Identify potential expansion areas for rubber and caco.	Crested a national geo-information and database on nabler and caza Developed a file intendoology framework to monitor plantations using practical and simple tools. A. Maps of site suitability location options for plantation expansion; A. Produced at least 2 publications in a refereed journal.	UPLB	Rubber and cacao industries - policy makers; farmers; LGU (regiona to national) rubber resource planners; plantation owners of nubber and cacao.	01-Apr-15	30-Mar-17	ONGOING	4,986,627	624,465

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Impact Assessment of Selected PCAARRD Publications	Transparent, accountable, and participatory governance	The impact assessment of PCAARDO's EC materials and publications aims to assess the benefits generated by the materials/polations among their target sudiences and other stakeholders. On their behand, the impact assessment of PCAARDO's capability-building profests aims to assess the R&O capability-building profess and the profess are the national agriculture and resources research and development network (MARDO).	a. Report of identifying the factors that affect the enabling environment in the publication delivery system, which would be PGAASB0 to assess and improve their methods of publication distribution. As a proper of the publications, which would provide vital information needed by Report on the extent of erach of the publications, which would provide vital information needed publication in the extension of the publication in the company of the publication and the provides of the publication in the company of the publication provides and the provides of the publication provides on publication process, in general A Report on impact assessment, which would help PCAASB0 to craft policies in publication and information dissemination, as well as provide basis for justifying the enhancement and production of more communication materials • Sandad of questionnaire for future communication materials assessment hittatives • Sandad of questionnaire for future communication materials or provides the publication of the equivalent)	UPLB	a. PCAARRY Appled Communication Division b. PCAARRD publications* audiences/ clients	18-Mar-16	31-Jan-18	ONGOING	4,963,395	418,679
	Impact Assessment of the CVAARRD Regional Program on the Enhancement of Artificial Insemination and Meat Processing Technologies towards Production of Quality Shughter Goats in Cagayan Valley	Transparent, accountable, and participatory governance	To analyze and quantify the impacts of the KCAABRO DOST funded project titled CUAABRO Regional Program on the Enhancement of Al and Meat Processing Technologies Towards Production of Quality Saughter Goats in Cagayan Valley	Documentation on the process and dynamics involved in the conceptualization, formulation, evaluation and implementation of the project; 2. Identification of the inputs, outputs and outcomes, impacts and benefits of the project. 3. Identification and assessment of the impact pathway by Identificing project results. 4. Estimation of the economic returns 5. Policy recommendations for the enhancement of the adoption of technology generated further to develop the goal industry.	CLSU	Policy and decision makers, national \$3.7 systems, funding approxi- sopporting 88.0 solvithier, researchers who are directly involved in technology transfer and economic evaluation, evaluators of tech trans programs	01-Nov-17	31-Oct-18	NEW	1,392,071	1,392,071
	Impact Assessment of the Filipinnovation Coral Rehabilitation Program in the Philippines	Transparent, accountable, and participatory governance	The general objective of the study, is to assess the impacts of the coral transplantation technology using assexually reproduced corals on previously degraded coral reef ecosystem is selected sites in the Philippines. Specifically, the study aims to: 1. Validate the performance of the Filipinnovation Coral Restoration Program specifically the coral transplantation technology that still cell assexually reproduced coral fragments. 2. Assess the impact of the transplantation technology on the biophysical, economic, and social aspects of the study sites particularly in terms of fish biomass and correstional value. 3. Develop a monthing protocol in conducting impact assessment of coral restoration projects particularly using the asexual coral reproduction technology	Year 1 J. Report on the performance of the Filippinovation Program after a year of its implementation; J. Impact assessment report of the coral transplantation technology on the biophysical, economic, and social aspects, long with valuation specifically in terms of increased fin biomass and recreational value Year 2 1. Synthesis Report of the prospects of coral transplantation technology as applied in the Philippines and a monitoring protocol on the process of conducting (A of rehabilitation projects. 2. At least 1 draft journal articles for publication in SJ journals	UPLB	Local fisher fisks and local tourism Local Government Units of the study sites, NGOs and associations Government regulators such as Department of Tourism e (DOT) and the Department of Environment and Natural Resources (DENR)	01-Nov-16	31-Oct-18	ONGOING	4,944,507	1,304,662
	Improved Resource-use Efficient (IRUE) Rice Varieties for the Philippines	Poverty reduction and empowerment of the poor and vulnerable	The project aimed to achieve the development of improved resource use efficient (IRLE) fire varieties that enrigates been for fertilizers and irrigiation water for resource poor farmers. This requires scenaring of aiready developed RUE 220 interpression lines (IU.5) in the badgeound of newly released high yielding RUE were obtained trains in the Philippines. Specifically, the project aims to: Develop improved resource use efficient (RUE) rice varieties. Is dentily the gene, CID is responsible for improved RUE. C. Indestant of the underlying indecidant and phyliological mechanism for RUE related traits. d. Conduct adaptive trials to validate and release the RUE materials in the target sites. Develop improved programment practices suitable for RUE related arvaits. E. Disseminate the RUE rice varieties along with crop management practices in varieties. E. Disseminate the RUE rice varieties along with crop management practices in the Philippines.	Most suitable ILs nominated into national trials for access by resource-goor farmers.	UPLB	Bize farmers, researchers, millens, traders, processors and other rice industry stateholders.	16-Sep-16	15-Sep-19	ONGOING	15,674,496	3,158,098
	Improvement and Semi-Automation of the Furnace Type Dryer (FTD) for Lumber, Bamboo and Other Raw Materials of the Forest-based Industries	Rapid, inclusive and sustained economic growth	General: The project main objective is to develop thermally efficient and innovative design of kiln dryer (from current manually operated to a sent-automated dryer) that would enhance the productivity, product, and the project of t	nuns/performance evaluation III Conducted performance testing/evaluation of the developed FTD Gathered data on heat balance and drying cost III Determined the technical and financial feasibility of the semi-automated FTD III Drying schedule of 2 tree plantation species and 1 bambos species	FPRDI	Lumber, Furniture, handcrafts and non-wood forestbased industries	01-0ct-17	30-Sep-19	NEW	4,996,450	3,485,600
	Improvement in the Hatchery and Nursery Production of Green Mussel (Perna viridis) (Old Title: Project 4. Increasing Survival of the Green Mussel (Perna viridis) Larvae and Juveniles through Improved Water and Food Facilities)	Rapid, inclusive and sustained economic growth	To improve survival of the hashery-produced musel through improved water and food facilies to augment mused population	1. Improved natural food and water furifies in museal hashdery; 2. Increased survival of the green mused fine firstlined eggs. 2. Improved technology of holding stats in the nurser yraptor to seedling them to grow-out farms; 4. Improved mass production of apparently healthy hatchery-produced green museal seeds. 5. Evaluated the growth and survival of the F1 hybrid	UPV	mussel growers	01-Oct-17	30-Sep-19	NEW	4,999,980	2,564,490
	intellectual Propery Rights (IPR) Protection of PCAARRD- Funded Research Projects	Rapid, inclusive and sustained economic growth	As a Comment Furding Agency (GEA) mandated to load projects to develop technologies in agriculture, augustic and stuties inconvers, there is a receive for PCABADID to resure that approprise normality of research products are accorded to be projects through anglicable IPR. This will also provide adequate everage for it as GEA and IS ABD insultates (ROI) as schoology generators in technology transfer, exhibits a habit to appreciate of the analysis of the conology area of the evaluated by the Sarreas Capition Board pursuant to Republic Act No. 1005s, otherwise known as the "Philippine Technology Transfer Act of 2009". To provide IPR protection for PCAABBD-funded research projects	Year 1: 20 patents/utility model applications and 5 industrial design applications Year 2: 5 patents/utility model applications and 5 industrial design applications	TAPI	Research Partners/Network of PCAABRD		i 30-Sep-18		5,773,374	3,209,920
	Intervening Pest Management Strategy for Coconut Scale Insect, Aspidiotus rigidus, in Zamboanga Peninsula	Poverty reduction and empowerment of the poor and vulnerable	General To develor papid and efficient pest response to A. rigidus infestation in Zambonage Peninsula using Integrated Pest Management Strategy Specific 1. To develop combination of control measures based on the level of CSI infestation, 2. To establish satellite rearing facility of C. calaunica in strategic beatons in Zambonage Peninsula, and, 3. To assess the efficiency of the CSI pest response in Zambonaga	The deliversible of this proposed grozect is the development of a system that will provide the necessary information to launch a response on detection of CSI in Zamboanga Peninsulà.	DLSU	Coconut Tamers, extension worken, academe, researchen, other stakeholders, and decision makers in Zamboanga Peninsula.	01-Dec-17	30-Nov-19	NEW	5,000,000	2,667,672

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Kuroshio Current Observing System in the Philippines: Remote Observations of the interactions of the Kuroshio with Internal Tiles and Mesocack Currents in Luzon Strait by High Frequency Doppler Radio Scatterometer	Integrity of the environment and climate change adaptation and mitigation	The main objective of the project is to deploy two systems of land-based High Frequency Droppler Radio Scatteronnerse (PIGES) on the North coals of Lours, with the eventual aim of maging the surface currents, surface were and wind direction hourly over a three-year period. Specifically, the proposal series to: * General key information on the horizontal structure of internal wave trains and the interactions of the Knurshio with internal lides and mesocoles currents in southern Luran Shraft such as menders and eddler formation; * Provide information about internal tide generation, propagation and energetic own to supply by develore the Statistics and Developed Lours of Evaluate to the 1965 data based on existing cream observing means, and to verify the HERS products with see houth and remote sensing data.	Products. Detablise of surface currents and in situ data * Time-series oceanographic data Publication * 3 Securiti Sourania* People Services * 10 Trained Personnel * 5 Ginabaste Subsents * 4 M5 Matrins Science students * 1 PPOP Student Partnerships * M5A with University of Hawaii and Mook Hale Cleanographic Institution Policy * S&T based information that will input into policy or guidelines for conservation and management of martner resources for Southern Luxon Strait	UPD	Intiliprie government agencies, studemed researchers who use surface current major for maritime safety, seath and rescue operations, weather forecasting, maritime enforcement, marine science, oceanographic research and fisheries.	01-Oct-17	30-Sep-20	NEW	35,609,106	8,217,956
	LAMP Detection Assays for Anthracnose, Stem-end rot and Scab Disease Pathogens in Philippine 'Carabao' Mango ((Mangifera indica Linn.)	Rapid, inclusive and sustained economic growth	General The main objective of this project is to develop a boop-mediated isothermal ampdification (LAMP) assays for the detection of the highly pathogenic fungli including the causative agents of anthracrose, stem end not, and scale diseases of Philippine Canabar mange (Mangfers indica Lims). The specific objectives are the following: I collentification of causal langu using various characteristics (nonphology & phylogeny): 2. Development of LAMP and analyses, such as 6 primers, concentration of samples: 3. Development of LAMP and analyses, such as 6 primers, concentration of samples: 3. Development of LAMP and analyses using route samples; 4. Ones field testing of the developed LAMP. S. Capacity building by organizing seminar on the proper use of LAMP, and 6. Publication of results in journal Citation Reports (LCR).	anthracronse, stem end rot, and scab diseases, including the following information: Signs and symptoms of disease -Localify where the pathogen was collected it Sequence data for deposit to GenBank and MycOBank It lat of novel species including the following: -Scientific identification to include taxonomic position and etymology -Morphological description -Scientific photo plates it Developed and field tested Loop-mediate is lothermal amplification (LAMP) for the paid	PUP	Farmers 2. Mango exporters 3. Scientisty Academicians/ Students 4. Public consumers 5. Fungicide manufactures/industry	01-Jul-17	30-Jun-20	NEW	5,195,668	1,480,000
	Low Salt Fermented Mussel Sauce as a Potential Functional Food and Ingredient	Rapid, inclusive and sustained economic growth	The project intends to adapt and change traditional finds succe made by methods line formerstation into health product with functional and bascative properties. As a find product, ackazing mentionements will be determined to protect the nutritional components and properties of the product as a 8s shelf stability at ambient conditions. 1. Develop processing method in the production of low-salt muscel sauce and its by-product; 2. Enablely product processing method in the production of low-salt muscel sauce and its by-product; 2. Enablely product protections (prosamules, serious) and nutritional composition (painion acid, lipid minerals) profile; 3. Assess functional and booknet's properties. 4. Determine packaging and shelf stability requirements of the developed products	L. Low salt fermented muscel states with functional and bisactive properties; Product nutritional profile, shelf-life and packaging requirements.	UPV	Feed industry, consumers, muself farmers	01-Apr-17	31-Mar-19	NEW	4,979,746	3,328,186
	Management and Commercialization of Technologies Generated from PCAARRD-funded Research Projects in UPLB	Rapid, inclusive and sustained economic growth	The general objective of this study is to manage and to commercialize the technologies generated from PCAAR8Dfunder centerprojects from two 2010 to Year 2015. Specifically, the study aims to 1. To determine the status and level of development of the IP protection of PCAAR8D-funder pojects from Year 2010 to Year 2015 for prioritization for commercialization, 2. To evaluate the potential of each technologies based on prioritization for if generation and protection, 3. To evaluate the potential of each technologies based on prioritization for if generation and protection, 3. To evaluate the potential of each technologies based on prioritization for the generation and protection, 3. To evaluate the potential of each technologies per potential protection and value of the prioritized technologies generated from PCAAR8D funded projects and, 4. To commercialize the prioritized technologies generated from PCAAR8D funded projects.	Sage 1. A utilit and Prioritization 8 desearch with Technology Potential Assessment Report 3 printing bits of technologies for pretection and for commercialization Updated 8/Prichnology Profile Patabase 2 Capacity building for researchers and staff through 1P management and technology commercialization trainings 1 infailed Protection (copyright and/or trademarks) applications and filings Sage 2. IP Creation and Protection 8 PAS report 8 University fairness opinion report 8 in Protection Draft and Application (copyright, trademark, utility model, patent and plant veriety) 8 mention Disclosures Assignment of Deed Rosylly sharing agreement 3 fechnology (valuation Report 81 Pragilication receiving documents Sage 3. Technology Commercialization contracts Sandard forms, contracts, and other templates 3 Photologing export commercialization contracts Sandard forms, contracts, and other productions of the same staffing of the same staffing of 3 informercialization contracts Sandard forms, contracts, and other management of the same staffing of the same staffing of 3 informercialization on sacrinology commercialization.	UPLB	University Researchers and Agriculture Sector	01-Aug-16	31-Jul-18	ONGOING	4,954,655	1,008,703
	Management Strategies on the Control of Coconut Scale Insect, Aspidiotus rigidus, at PCA-Zamboanga Research Center Coconut Genebank and Zambonaga City	Poverty reduction and empowerment of the poor and vulnerable	To develop an SSR protocol on the utilization of the parasitoid and enhancement of natural controlling dactors for the sustainable management of CSI at the PCA-ZARC and Zambounga CHy	Determined and analysed level of infectation of CSI and natural enemies; Lidentified most operated hor: Established the most effective mode of parasitoid release	PCA	researches, extension workers, coconut farmers	01-Dec-17	30-Nov-18	NEW	5,000,000	5,000,000
	Mangrove Crab (Scylla serrata) Production in Alabat Island, Quezon Province Using an Aquasilviculture System	Rapid, inclusive and sustained economic growth	Evaluate the productivity and profitability of mangrove crab culture in Aquasiviculture systems in terms of growth, survivol, vieté Analyze impacts of Aquasiviculture of mangrove crab on the water quality Describe the acceptability of Aquasiviculture system by the coastal communities in Alabat, Quezon	A. Benefits of aquasilyticulture technology B. Profitability analysis of the production performance of mangrove crab in aquasilyticulture system C. Acceptability of aquasilyticulture technology by the community	SLSU	Coastal communities, marginal fishers of Alabat, Quezon, farmers, environmentalist, researchers, medical practitioners, different sectors of the community	01-Sep-17	31-Aug-19	NEW	4,466,737	2,809,306
	Mapping the Distribution of Abaca Bunchy Top in Different Cropping Systems and Analyzing Epidemic Risks in the Zamboanga Peninsula	Poverty reduction and empowerment of the poor and vulnerable	Mapping disease distribution, with new technologies like Geographic Information System (GIS) and predicting the course of its spreads from tool of intection, with forestating models, provide no proputurity to formulate management strategies designed to avoid epidemic intersulfication. These maps, likewise, allows the identification of growing resets that can be categorized with thors vike of vulnerability to environmental change in the Zambosang Perimulus. Specific Objectives: To survey the prevalence and vocince of abase vixes diseases in the Zambosang Perimulus. Specific Objectives: To survey the prevalence and vocince of abase vixes diseases in the Zambosang Perimulus on Geographic Information system (GIS) basings level to determine the most and least vulnerable areas for new abase plantations in the Zambosang Perimulus based on orgoging years and GIS maps; of desermine abase afforms in varieties grown in the Zambosang Perimulus, to describe the cropping systems practiced in abase forms in 22 zambosang Perimulus including planting methods, oppulation offersity, retireting aspecting of part management, harvesting procedure, etc.; to assess the occurrence of apilyla vectors in individual fields; to identify the process of apilola occurring in alsez plantation, a native rate of disease increase and spread from survey data, and to assess this of future abase areas disease epidemics due to climate change using the burst-from computer simulation model.	1. GS may porl ablacs cropping ereas and vinus disease distribution in time indicating internollization, and in space indicating president, in the Zambonage Pervisus 2. Knowledge/Information of cropping systems and ablacs varieties being planted in the Perinsula and possible relation to abuse bursh vity pergression 3. Estimates of rates of disease increase and graphs of simulated epidemics and forecasts of risk of epidemics in abuse growing areas tend for the Perinsula 4. Enrollment on appropriate datas views disease management strategies repaired transpers that the probability of the probability of the probability of probability of probability of probability of probability of the prob	Jose Rizal Memorial State University - Tampilisan, UPLB	Abaca growers/farmers, government institution (DA PhilliDA), and researchers	01-Feb-16	31-Jan-18	ONGOING	4,995,080	2,243,028
	Mass Production and Release of the Parasitoid, Comperiella sp. Against Coconut Scale Insect, Aspidiotus rigidus	Poverty reduction and empowerment of the poor and vulnerable	General To mass produce efficiently the Comprehella ag for inoculative release in the field particularly in the new seas of concurt acide interc. Interestion. Specific To diverbig a mass maring protocol for Comprehella ag. To determine the best field release strategy for Comprehella ag. To evaluate the success of establishment and spread of Comprehella sp. in the release site of Comprehella ago, the success of establishment and spread of Comprehella sp. in the release site of Comprehella sp. to accordant the field conservation of Comprehella sp. to accordant the field conservation of Comprehella sp. to accordant the field conservation of Comprehella sp.	the parasitoids and stable establishment for a sustainable biological control system. Establishment and spread of the parasitoids will be attained. Natural spread with significant	DLSU	Lead cocoand, farmers, farming communities, extension workers, stakeholders, decision makers, researchers	01-Sep-15	31-Aug-17	ONGOING	4,978,150	917,467
	Mechanizing the Production Systems in Philippine Seaweet Farms and Improving the Seaweed Culture Facility at PSU- MSL		To address the slow and intricate procedure of preparing, deploying and harvesting of seaweed planted less. It is a specification of the procedure of preparing, deploying and harvesting of seaweed planted less. To standards utilities management including the women and school children in seedling/planting materials orespectation. To standardize the procedure in capturing the "seaweed drips" which were known to contain plant growth promoting residues.	Adiesst one (1) Prototype of low cost "Amphibious Utility Vehicle" (AUV) One (1) Prototype of Seawerd Harvester Line (1) Prototype of Seawerd Harvester Line (1) Prototype of Seawerd Harvester Line (1) Prototype of Line (Palawan State University	Seaweed industry, Seaweed farmers, Bureau of Fisheries and Aquatic Resources (BFAR), Academe, Researchery/Scientists, LGUs and NGAs	01-Mar-17	28-Feb-18	NEW	1,295,090	1,295,090

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Morphology-based Diagnostics of Armored Scale Insects (Hemipters: Diaspididae) and Their Natural Enemies Infesting Coconut and Associated Crops - Phase 2	Poverty reduction and empowerment of the poor and vulnerable	General To develop morphological diagnosis tools for amored scale insects and associated natural memies to facilitate the formulation of appropriate management strategie for scale insects, Specific. 10 study the taxonomy of coconsi-infecting and related species of the genus Application and other amored acele insects of the test Application. 2 To coundust sumonnic resistance of armost calcular interest general belonging to the tribes Disapsidini, Lepidosaphini and Parlatorinii, with emphasis on those that include complexes or species that infect occuma dasociated crops; 1 to survey natural enemies of amored scale insects infecting occomula and associated crops in the Philippines; and 3 Project Objectives 4. To study the taxonomy of insect parasitoids and predators attacking armored scale insects infesting occomula and associated crops in the Philippines.	1. One 1)1 set of morphology-based identification key of ammond scale insects and their natural enemies and fillustrated disposits; glieis in recoporating morphological data from other likes of armored scale insects 12. Compendium of scale insects statisking occount all sealine information on the natural enemies of ammond scale insects infering occount and socioted corps in the Philippines 4. Checklist of ratural enemies of armored scale insects infesting occount and associated corps in the Philippines (Perference collection of natural enemies of ammond scale insects infesting occount and associated orgos in the Philippines 6. If Ck Materials - publication, pamphlets 7. Four (4) or more peer-reviewed scientific publications	UPLB	The dientels in pest imagement and devenly studies will be farmer, planters, but quantantie officers, PAC researchers and officers, researchers, non-research staff, students and the interested public. This could support the conversation of the natural enemy species attacking ammored scale insects infesting concentrat and other succounted and other succounters and ot	01-Oct-16	30-Sep-1	7 ONGOING	3,462,905	380,095
	Multi-location evaluation of naturally selected Saba strains with short stature and field evaluation of irradiated Saba/Cardaba	Poverty reduction and empowerment of the poor and vulnerable	To evalues enterally-selected and resistent Sako Centals strains with short stature (a meter or less) and entymentarly (insensable at 21.5 memorate). (1) means prospect and evaluate the agromomic, yeld and exonemic performance of different Sako strains with short stature (4 meter or less that are havestable in 12.5 dimentally in a 12.6 stead 10 has in selected actions (islabels, haven Varians, Laguns, Oriental Mindron, Dawso City and Butsan), under farmeride"s field condition. (2) To study the acceptability and anticolate properties of celected Sako strains with short stature to determine the best possible variety to be recommended to the farmers. (3) To conduct technology variety promotion and dissemination of priming strains's selected Sako with short stature to devaluation of irradiated short-statured Sako ₃ /Curdaba. (5) To evaluate promising strains and selected wradiated mutants of Sako for resistance against Banana Bract Mosaic Virus and Bugtok.	Short statured (4m or less) early fruiting (tharvestable in 12-16 months) Saba	UPLB, ISU, NVSU, BPI-DNCRDC	Banesa growers, Agricultural officers/fechnicians, Non-governmen organizations, Researches	t 01-Dec-14	30-Nov-1	7 ONGOING	17,383,389	3,555,620
	Multi-location Trials of Oligo-carrageenan for improved Productivity of Mungbean and Peanut in Regions II, III, VII, and X	Rapid, inclusive and sustained economic growth	sustain the availability of quality seeds of murghean and penut in major growing area in Regions 2,3,7 and 10 through file application of logic corregerous any latter bust immufant. Specifically, the project aims to: Specifically, the project aims to: 1. To determine the effects of oligo-carragemens on insect pest infestation (pod borer and cutworm) and disease infection (Entrospora heat pod and not) on murghean and generat. 2. To determine the effects of disease infection (Entrospora heat pod and not) on murghean and generat. 3. To reduce the the shift of the project of disease infection or murghean and general as plant to stimulant after storage (if months to 1 year) under ambiester room conditions; 4. To promote the use and application of oligo-carragemens as plant to its origination of oligo-carragemens as of oligo-carragemens as of oligo-carragemens as plant to other origination of oligo-carragemens as plant to other origination of oligo-carragemens as of oligo-carragemens as of oligo-carragemen	modes of application). 4. Articles, published in scentific journals; 5. Cost Benefit Analyses on the use of Oligo-carrageran on murghean and pensurus a Plattill Scientimeter, and 6. Carrageeran product registration as plant bio-stimulant for munghean and pennut.	PNRI, PSAU, DA II, DA III, DA VII, DA X	Rice and com farmers (legumes as sequential crops) 2. Mangkenn and peanut growers 3. Seed producers 4. Researchers and advantage.	16-Nov-16	15-Nov-1	8 ONGOING	4,995,497	2,010,925
	National Research & Development Project for Watershed Management in the Philippines (Phase 2)	Rapid, inclusive and sustained economic growth	The project generally aims to divelops a network of learning watersheds and watershed management decision support systems, Specifically, it saims to a) establish viewes seven orderosis has will provide real-time information on water quantity and quality, local climate and soil conditions of selected watersheds, ble elibilith networks of generate biodiscenity morning placts, c) assess and/or watersheds and ecosystem services with human and natural factors, d) develop and/or watershed and ecosystem services with human and natural factors, d) develop and/or watershed and ecosystem services with human and natural factors, d) develop and/or watershed and ecosystem services with human and natural factors, d) develop and/or state of the services of the services of the services of the services and information-management system that or synthesizes data from the watershed networks into real-time spatial estimates of water balance, sediment yelfs, flood and collection size, g) develop collection of expectable missing development of the services of t	Year I New Watersheds 'Stakeholders mobilized, organized and agreements forged fistablished wireless sensor networks that provide real-time information on state-phylological admitted and the provided of the	UPLB. MMSU, ISU, ERDB, CMU, BUCAF	LGUs, farmers	01-Mar-15	31-Aug-1	7 ONGOING	14,873,800	603,636
	Pilot Testing and Utilization of Rapid Bloassay for Pesticide Residues (RBPR) System in the Philippines	Poverty reduction and empowerment of the poor and vulnerable	1.) Adopt the RBPR technology for exept/bullinestenses and pyrethroid test for petitide residues, 2.15 etc. up production areas of BRPR test kits for alliastation and training of one analysts to be based on dentified and the production of the p	\$10 agricultural technicians and 6 market inspectors trained for monitoring vegetables in farmy- and markets, \$10 vegetable rescenders and chemics stailed for monitoring septicide resolutes as pread profures use to \$1 Peopode shippion for prestide resolutes monitoring of regetables in the Philippions for polity adoption. Sciedaffiers on the implementation of \$P88 in the Philippines: \$1 Plot tested 8P8 kit for use in trading post in Benguet, Gueron, and Laguna markets and for Scormment Regelatory Agrecies and organic certifying bodies; 300 and pasticide residues in vegetables in Benguet, Laguna, and Gueron farms using the different farming practices; 30 bits on publication and EC material on RBPR.	BSU, UPLB	Target beneficiaries are regetable consumers in general, executives and cereation workers who work cloudy with recent the safe cereation workers who work cloudy with regime correling to lead to the table for monitor the accredited organic farm and farmer groups for self-regulation. The data generated can also be about for policy or regulation by government agencies dealing with food safety	01-Sep-15	28-Feb-1	8 ONGOING	8,000,000	449,874
	Pilot Testing of a Local Riding:Type Transplanter	Rapid, inclusive and sustained economic growth	General: To conduct pilot testing and assess the acceptability of the local riding-type rice transplanter performance in free farmer's fields. Specifically the project aims to: 15 assess the set staff field performance of the local ridingtype net transplanter allowing the Internet to operate the commercial prototype. 3 fine tune the commercial prototype based on the actual field performance, durability test results, and the preference of the farmers' in terms of operation. 3 fine tune the commercial prototype based on the actual field performance, durability test results, and the preference of the farmers' in terms of operation. 3 for determine the proportion anterials in deed for reliable and quality unit. 3 for determine technical violatility (machine performance), economic viability (benefit-cost) and social acceptability (machine operation and cost) of the prototype, and	8.A technically efficient, economically viable, and socially acceptable riding type rice transplanter that is being manufactured by accredited manufactures. Schrafted PK Gains ready for submission to PD Philipseip prior to deployment to pilot areas. Exployed at least 3 (three) prototype units in the pilot areas (Lucon, Visayas, Mindranda) 8 Determined for readiness of cooperators to operate and nearlish at the readiness of cooperators to operate and nearlish and resolved and explorated prototype units of the extension and cost of operation of the technical performance and components of the developed technically 8 Declared engineering drawing of the different parts and components of the transplanter 8 "trained at least 3 cooperation."	PhilRice	B Farmery,Seed Growers B Seed Centery/Cooperatives B irrigators Association B NGO's B Private Company (Local Manufacturer)	01-Nov-16	31-Oct-1	8 ONGOING	4,527,613	2,374,048
	Pilot Testing of Combined Conduction and Far Infrared Radiation Dryer (Old Title: Pilot Testing of Far-infrared Radiation Paddy Dryer)	Rapid, inclusive and sustained economic growth	To pilot test the FIR paddy dryer using rice hull hosk gasifier as a heat source.	1. a joic testing sites established 2. a manufactures trained on fabrication, assembly and installation 3. trained dryer operator farmers 4. Field PR claims and licensing of local manufacturers 5. detailed regimeering drawings 6. detailed regimeering drawings 6. cost-benefit and break even analysis	PhilRice	Farmers, farmer cooperatives, rice traders, millers, local manufacturers	01-Oct-17			4,997,557	1,673,876
	Pilot Testing of Impeller-Type Compact Rice Mill in Selected Rice Growing Regions	Rapid, inclusive and sustained economic growth	General The project aims to evaluate the sool economic and technical viability and acceptability of the pilet commercial unit to prospect end-user. See Seed (1) To determine the specific operational and management requirements to safely and profitably stake the developed result letchoology and the seed of the seed	performance and cost of milling of the technology. If Established the physical characteristics of the output of the fice final limproved initial design of the developed shortology. If S4 sheets of detailed engineering drawing of the developed technology. If S4 sheets of detailed engineering drawing of the different parts and components of the rice mill Established possible market picts of the developed technology. If Developed and updated user's manual of operations. If Trained at least 6 cooperators.	PhilMech	It Farmers / Farmers-cooperatives — for the processing of their household requirements, Discharric femiliary lighters — given an alternative type of rice mill with less operating and maintenance costs, and It Local manufacturers	01-Jan-16	31-Dec-1	7 ONGOING	3,667,983	954,211
	Pilot Testing of Longline Method for Green Mussel Culture in Traditional Areas	Rapid, inclusive and sustained economic growth	The project will plot test the longline culture method of P, virids in traditional culture areas in the Philippines.	Year 1.1. Comparative analysis of the production and economics of musel using stake and longine culture methods in different place is 2. Comparative analysis of the environmental effect of taske and longitime musel culture farms. Year 2.1. Chanced protocol, manufal and Ecis for establishment of longitime 2. Information on the medium term impact deflect of musels longitime method on yield 3. Information on the factors production efficiency. 5. Policy recommendations for musel culture 6. Publications.	UPV	Private investors, fisherfolks, BFAR extension personnel, LGUs, educators, recearchers	01-Sep-17	28-Feb-1	9 NEW	4,721,300	3,243,200

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Piol Testing of Pre., On-, and Post., Harvest Facilities for Mange Production in Island Garden City of Samal (IGACOS, Davao del Norte	Rapid, , inclusive and sustained economic growth	General To plick test and assess the acceptability and visibility of the invoxative technologies (pary accounts, first picks and integrated posthursts facility) to the manage farmers, contractions and other agencies in IACACS Specific Sconduct a wrificatory field survey that determines pre-, or, and post-, harvest needs of mango growers in the island carbon (ny of Smarls Toorduct instance-on training on the operation and mainternance of the developed enthrologies; a flanticate the developed enthrologies and prototypes; IS conduct field testing to selected manner cooperations to further enhance of the test in the developed enthrologies and prototypes; IS conduct field testing to selected manner cooperations to further enhance of the test in the developed enthrologies are prototypes; IS conduct field testing to selected manner cooperations to further enhance of the test in the developed enthrologies are prototypes; IS conduct field the selection of the selection	a. Taxined export mange producing farmers —One (1) regional manage producers cooperative based in simal and another Cooperative to be helped to develop to become an exporting entity in Davos Orientals. Exportable volume of manages shall increase from baseline data of arround Mit can estimated volume of 6 MT per annum, feet of murize algorithm of fower induction of flower induction of flower induction of 6 MT per annum, feet of murize algorithm of flower induction of flower induction of source induction of source induction of the conventional to 200 N (1) 2 A to 2.5% for the part type paids with the conventional to 200 N (1) 2 A to 2.5% for the part type paids with the conventional to 200 N (1) 2 A to 2.5% for the part type paids with the conventional convention of the conventional to 200 N (1) A to 2.5% for the part type paids with the conventional conventional to 200 N (1) A to 2.5% for the part type paids with the conventional to 200 N (1) A to 2.5% for the part type paids with the conventional to 200 N (1) A to 2.5% for the part type paids with the conventional to 200 N (1) A to 2.5% for the part type paids with the convention of 200 N (1) A to 2.5% for the part type paids with the convention of 200 N (1) A to 2.5% for the part type paids with the convention of 200 N (1) A to 2.5% for the convention of 200 N (1) A to 2.5% for the convention of 200 N (1) A to 2.5% for the convention of 200 N (1) A to 2.5% for the convention of 200 N (1) A to 2.5% for the convention of 200 N (1) A to 2.5% for the convention of 200 N (1) A to 2.5% for the convention of 200 N (1) A to 2.5% for the 200 N (1) A to 2.5%	USEP	\$1.GU. of IGACOS \$1 Mango farmers in IGACOS \$2 Mango contractual/ cooperators in IGACO	01-May-17	31-Jul-18	3 NEW	2,862,359	2,531,943
	Pilot Testing of Protein Enriched Copra Meal (PECM): A Valuable Protein Feed for Swine and Poultry (Phase II)	Rapid, inclusive and sustained economic growth	The general objective of the project is to establish a biognoces system for the pilot scale production of Protons furnised Copy Askal (PECM) and determine its feeding value in swire and posibly. Specific Objective: 1. To establish and develop the process object for the pilot scale production of PECM 2. To test and opimize process conditions for the production of PECM at pilot scale level 3. To produce PECM at pilot scale level and evaluate quality corrior parameters 4. To perform shell file studies and stallbillization methods for PCM 5. To carry out distribution and commercial testing of PECM to collaborating farms for evaluate production out states of hostians models generated 7. To develop sustainability strategies for the procured equipment and facility enhancements naude	Year 1.8 Established optimum level for plict scale production of PECM. It Established upstream and downstream processes of the plot scale production of PECM. It established upstream and downstream processes of the plot scale production of PECM. We choosing the Pecpetry IP (P) products of period product of Percolod or PECM technology and commercialization initiatives it Generated business models for producing PECM 8.0 Everloped scatariability strategies for the equipment processes and scale inpartmenents made produced to the product of PECM and produced produced produced and produced produce	UPLB	3 Suite and Poultry Farmers II Feed Millers and Processors II Copre producers	01-Nov-17	31-Oct-18	3 NEW	24,355,676	1,922,588
	Pilot Testing of WiltCure as a New Biocontrol Agent Agains Fusarium Wilt of Solanaceous Crops	Rapid, inclusive and sustained economic	The project is the continuation of the project on Development and Promotion of New and Cohanced Borderillaers, Biosimulates and Biogenication for increased Copy Productishy is will deal usign the solitation of Willicers as a new biocontrol agent against finantian will of tomatio, hot propor and aggolant an multilocation trials over two cropping seasons. Field testing will be done in Laguna, Queston, Navea Esja, which are major producers of the solitaneous crops that will be studied.	New 1: Best application method, optimum dosage and frequency of application of WiltCure as a becomercia eyes in against Exaction will of solaneaeous cross. If Year 2: Validated technical and economic efficiency of WiltCure Increased capacities of stakeholders including farmers and technicians through conduct of trainings.	UPLB, CLSU	Trainmers, consumers, entrepreneurs, researchers, students	01-Oct-17	30-Sep-19	NEW	5,000,000	2,647,179
	Piloting a Profitable and Sustainable Commercial Scale Zampen Native Chicken Breeding Operation	Rapid, inclusive and sustained economic growth	The proposed project aims to evaluate the economic potentials and sustainability of commercial scale production of breader Zampen native chickens. Searchificially, the project aims sto: Swaldate the breader glifficings and production performance of breeder quality Zampen native chickens in larger scale at SEPPF and INT.C.S. establish and evaluate the economic visibility of Zampen native chicken in commercial scale operations. I definance the opposition of raised chicken from SEPPF employees and immates and INT.C.S animal science faculty in establishing a sustainable native chicken production or service and control of the service production of the service scale production or service and control of the service scale of the service of the service scale of the service of the service scale of the scale of the service scale of the scale of	330,000 quality day-old Zampen rative chicks 13,000 quality breeder Zampen rative chickens 3. 30 soon to be released immates trained in sciencebased native chicken breeding and selection.	WMSU	The project beneficiaries are: ISSPES cont bot herdeased princers: ISSPES cont bot herdeased princers: ISSUE and researchers of WKSU IS Student, staff and researchers of WKSU IS Student, staff and researchers of WKSU IS Subent, staff and researchers of JKSC IS Native chicken raisers in Zamboanga peninsula	01-Nov-16	31-Oct-18	8 ONGOING	4,499,812	2,012,135
	Plantation Management Strategies for Natural Stands and Newly Established Stands of Sago Palm in Visayas and Mindanao	Rapid, inclusive and sustained economic	The project aims to conserve and sustain the productivity of existing natural sage stands in Mindanas of through appropriate management practices and evelop pilot scale sage plantation in selected areas in Villagias and Mindanas for sustained productivity and support devinding supply of sage starch from natural stands.	Established 6 hectares of new sapp plantation. Rehabilished 9 hectares of natural sago stands- Trained at least 40 sago growers/IGU technicians - Develop 1 type of IEC material (print) on protocol for managing natural sago stand and developing new sago plantation - 9 for recommendation on the management of natural and established sago stands/plantations	VSU, ASU, CarSU	sago palm farmers	01-Mar-16	28-Feb-19	ONGOING	4,996,810	1,446,806
	Policy Studies and Development to Promote the Resiliency of Philippine Watersheds	Transparent, accountable, and participatory governance	This chap's will deterffly and assess major policy issues and concerns causal to realisence and sustainability and assess facilitating and constraining factors realised to 44 years on concerns). Explore potential interventions and reforms needed to enhance enabling policy environment 3) Device assistational realisms in the will facilitate to principle reforms all benefits resource required to implement needed policy actions (5) Formulate and package identified major policy actions crucial to replication and provide provided and package identified major policy actions crucial to replication and provided and package identified major policy actions crucial to	Redity on institutionalization of Payment of Environmental Services (FS) Policy institutionalization of Formation of Multi Sectoral Management Council Guidelines for Promotion and Development of watershed-based comprehensive land use, adactation, development planning and regulation 4. Watershed Policy Forum To "No (2) Scientific grant publications	UPLB	DENR, LGUs, stakeholders	01-Jun-17	31-May-19	NEW	4,844,232	2,640,996
	Potato Seed Production through Aeroponics (Phase I: Technology Development)	Poverty reduction and empowerment of the poor and vulnerable	General To develop a time-cast technology exreposins system for clean white potates seed production. Search Objectives To design an emporation foultiling retendance and mis system) specific for potato seed production; 2 To formulate a nutrient solution most suitable for highland optato seed production; 3. To determine the best planting material for exerposins; potato seed production system; and 4. To compare aeroponics potato seed with conventionally-produced potato seed in farm trials.	Text 1: Samed re-designing of existing grosehouse at DA-NMACLBC and mini-grosehouse at IPS-UPLB1 Collected micro-environment data at UPLB1 Scielected data on the growth or footable 18 Evaluated different nozzia/miny system in aeroposics 3 Started evaluation, optimization, and improvement of the UP nutrient solution Year 2: B A prototype of a greenhouse and an aeroposic system specific for potato seed production miner philipsipsic conditions. National formulations system for potato seed production under Philippings conditions. Some of the UPL and Started Sta	UPLB, DA- NMACLRC	highland vagetable formers and commercial seed growers in Regions 10, 11 and CAR	01-Nov-14	30-Apr-18	ONGOING	4,999,382	1,430,802
	Pre-Commercialization of Forage-based Pellet Feeds for Goats: Feasibility Analysis	Rapid, inclusive and sustained economic growth	General: This project aims to increase technology readiness of forage-based pollets for goal in preparation to commerculiazion. Specific 1. To produce 3,000 kg each of two variants of forage-based pollets for growing goats and 4,000 kg each of box variants of forage-based pollets for growing goats and 4,000 kg each for bactating goats in pilot scale; 2. To conduct field testing and evaluation of the different variants of forage-based pollets feeds; 3. To determine protein diseased for forage-based pollets, and 4. To scale-up-promotional activities for forage-based pollet feeds.	The following are the expected outputs of the project: 3 Production of 3,000 each of the two variants for growing goats and 4,000kg each for lactating does 3) Freeding value of forage-based pellets to growing and lactating goats 4) Shelf life characteristics of the pellets 6) Deligin and packaging and application for copyright and trademark e) Acceptability study 7 Fersibility values 8) Buciness plain 10 Statistics plain 10 Statistics plain 10 Statistics plain 10 Statistics plain Calculated and a website to showcase the product and the technology through the social media. 10 Statistics linked linkage between CSJ and goat raisers and potential investors 10 Process documentation	cisu	3 gost raisers operating at 3 different production levels 90 goat raisers from 3 ties 30 members of association 18 agricultural suppliers	01-Nov-16	30-Apr-18	ONGOING	2,175,910	511,302
	Pre-Commercialization Services of Rice Transplanter Attachment (RTA) and Rice Harvester Attachment (RHA) for Hand Tractor	Rapid, inclusive and sustained economic growth	General: To support the commercialization of the RMA and RTA technologies through the conduct of pre- commercialization activities. Secretic: - 16 beliable the filling of IP protection for the RMA technology and prosecution of the patent application for the RTA technologie; - 10 evaluate the potential and determine the commercial viability of the RMA and RTA technologies: - 10 determine the market viability of the RMA and RTA technologies through the conduct of a faelibly trush and bouriness plan analysis: - 10 determine the market viability of the RMA and RTA technologies through the conduct of a full blown market study; - 10 promote the technology to potential adoption/investors through participation in various trade events, sectnology for an ade relability.	Propose 1 Market Study Report prepared, 1 Feasibility Study Report prepared, 1 Business Plan prepared Planter Study Report prepared, 1 Business Plan prepared Planter BMA bedrookgy applied for IP protection Planter BMA bedr	MIRDC	Farmers, rice field owners and planters, agri-cooperatives and local fabricator shops	01-Jun-17	30-Nov-18	3 NEW	4,508,333	3,554,328

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Cost	2017 PCAARRD GIA
	Processing and Wood Quality Evaluation of Paper Mulberry (Broussonetia payrifera L.) Lifetri ex Vent) for Furniture, Handicrafts, and other by-products	Rapid, inclusive and sustained economic growth	Genezic Establish potential utilization of paper mulberry wood based on physico mechanical and processing properties. The utilization of this inswise species can be potential strategy for egidate the massiveness of the species as well as take advantage of the opportunity to make use of the species as securize and any material for the wood beard industry and for believoid and enterprise of community where the species abound, good of the species and security of the species of the species of the species of the species and species and species and species of the species of the species of the species of the species of species of the species of species of the species of the species of the species of the species for handmarks and professional species of species for handmarks paper, chancoal/britiquette and privilegences (species production; and 7. Prepare a pamphlet/primer on wood properties and potential utilization of paper mulberry.	Year 1. 18 of Sease may of potential sources of figs supply 18 bate on humber recovery and grading 8 Data on phylic-medical properties. B Work bending quality rating for paper mulberry 3 Bentwood components for furniture and handcrafts 3/81 of right schedule for paper mulberry 3 Scheduled medicing properties of paper mulberry 3 Fordication of paper mulberry 16 handmade paper, chronol and psycligenous flagor their 2 3 includes and analysis on checkwalling frequently and handmade paper mulber 3 consolidated dais/frequentation on properties and properties of happer mulberry 3 it eminist report with primer on paper mulberry processing and satisfaction.	FPRDI	Familium, handicrafts, handmade paper and charcoal producers; private tree farmes	01-Apr-17	30-Sep-1	NEW	1,584,826	1,145,917
	Production of Quality Planting Materials of Selected Vegetables, Legumes, Herbs and Fruits Trees(Old Title:Technology Demonstration on Organic Production of Lowland Vegetables and Legumes)	Rapid, inclusive and sustained economic	1. To establish techno demo area on organic production of lowland vegetables, selected field legumes and fruit trees; 2. To showcase nursery management on seeding production of lowland vegetables, herbs and fruit trees; 3. To disseminate organic vegetable production technologies to farmers, students, technicians and interested individual.	A Technology Demonstration Area for package of technologies on selected lowland vegetables, legumes, herbs and fruits; 2. Conducted at least 2 field days	BPI-LBNCRDPSC	Local and international organizations, local government technicians, farmers and individuals	01-Mar-17	31-Aug-1	NEW	3,911,990	2,639,499
	Refinement of Mussel Transplantation Techniques for Developing Mussel Farming Industry in Quezon (old title: Establishment of Green Lipped Mussel (Pera viridis) Nursery Farm in Tagkawayan, Quezon)	growth Rapid, inclusive and sustained economic growth	The primary olderive of the study is to improve the muses transplantation techniques for developing muses farming industry in Queero. Queerous of the study in oldes the following: 1. Test developed transplantation protocol in establishing reportative population. 2. Determine flacation it established or improved the study of t	Year I 3 Partnership with other State Universities and Colleges, LGU and other organization in mussel culture Year I Frame of the Colleges of	SLSU	There are many potential micro-entrepreneurs in the Philippines who cannot afford to conduct their own product development and who would verticate a new type of business activity. Other beneficiates include muscle larners, vendors, processors, exporters, recently, technicates/extensionists, policy makers, and consuming public.	01-Aug-17	31-Jul-1	NEW	2,500,000	2,500,000
	Rehabilitation and Restoration of Typhoon-Damaged Research Facility of the PCAARRD Multi-Agency Research and Development Program on Conservation, Improvement and Profitable Utilization of Philippine Native Pig at the Marinduque State College in Torrijos, Marinduque	Integrity of the environment and climate change adaptation and mitigation	Requests for a rehabilitation and restoration financial assistance for the PCLARRD Multi-Agency Research and Development Program on Conservation, improvement and Profitable Utilization of Philippine Native Page 1the Naturalugus State College in Torrijos, Natinduques Specifically: 1. To reconstruct the typhoon-damaged research facility of the Native Pig R&D Program. 2. To develop and improve the forage plantations with installation of water-system in anticipation of the dry spell after the typhoon.	Deallocate measurement installed for criticalship moral transhipation. 1. Re-constructed frontwarters 2. Developed forge Areas	MSC	PCARRD Multi-Agency Research and Development Program Research Facility in Marinduque State College in Tomjos, Marinduque	01-Mar-17	28-Feb-18	NEW	452,270	452,270
	Rehabilitation Strategies for Critical Mangrowe and Coastal Forests in Coastal Communities of Western and Northwestern Leyte (COASTAL FORESTS REHAB PROJECT)	Rapid, inclusive and sustained economic growth	S assess the current soils-economic and biophysical condition of the prospective marginore and coestal forest areas which users as a basis in the identification and implementation of alternative rehabilitation strategies. Because the second process of the second process are second process. Because the second process are second process as the second process and process as the second process as the second process and process and second process are second process and process and second process are second process and	1. Baseline scole occomence and boophysical purifier of selected mangrove and coastal forests stees produced to include map and situation analysis. 2. Local mangrove and coastal forests rehabilitation and management plan put in place in every parties focal community. 3. Istabilished mangrove and coastal forests Rehabilitation can demo sites in selected coastal forests and communities which expected to sever us effective protective general against strong winds, by were and communities with one support of the communities with complete and communities. So Created and/or strengthened local POs for coastal and mangrove forests management and protection. Clin Cinnaterials (such as booklets and videos) on mangrove and coastal forests rehabilitation developed and disterminated? 7. Estabilished coaff cut has a booklets and videos) on mangrove and coastal forests rehabilitation developed and disterminated and coastal forests sheet (ps. local declaration of critical mangroves and coastal forests sheet (ps. local declaration of critical mangroves and coastal forests sheet (ps. local declaration of critical mangroves and coastal forests sheet (ps. local declaration of critical mangroves and coastal forests sheet (ps. local declaration of critical mangroves and coastal forests sheet (ps. local declaration of critical mangroves and coastal forest sheet (ps. local declaration of critical mangroves and coastal forests sheet for coastal community protection, local community protection, local confidence of coastal forest sheet for coastal community protection, local confidence in the protection, ecological, and economic value of refront mangrove and coastal forests the for coastal community protection, local confidence and coastal forests. 11. Improved ecological and socion economic value of refront mangrove and coastal forests the streament love of economic value of refronts. 12. Increased level of economic living of participating households and covered communities.	vsu	The target beneficiaries of this proposed project will be the highbool affected coastal commission of Rybay Driv Nettern Leyte, and liabel in Northwestern part of Leyte. Local governments at the barrange, municipal and ority levels will also be herefised in terms of technical support through the capacity-building activities of the project such as training and in planning middle program development for mangrove and coastal foreits rehabilitation, Owners and operation of economic celabilitiements in the coastal areas such as beach resorts, coastal economic parks and areas such as beach resorts, coastal economic parks and areas such as beach resorts, coastal economic parks and areas such as beach resorts, coastal economic parks and excitationaries, and desired in establishments in the coastal economic parks and areas such as beach resorts, coastal economic parks and areas such as beach resorts, coastal economic parks and areas such as beach resorts, or coastal economic parks and areas such as beach resorts, or coastal economic parks and areas such as the coastal economic parks and areas such as a	01-Aug-15	31-Jul-1	ONGOING	3,500,000	866,337
	Revitalizing the Abaca Industry through S&T interventions for Higher Crop Productivity Using High-Yielding and Virus- Resistant Abaca Hybrids		The general objective is to reinvigious the deback industry by improving the furn productivity to 1.2 mink/ly/set frought to use of help/whelliged and vion-resistant abuse harbits and its package of production technologies, thus improving income of abuse farmers. Specific To assess the agronomic and commonly performance of new 81 Priceisstant abuse harbits in the multi-location trist; to promote and distribute nationwide the propagated 2.5 million seedlings of the new 81 Priceisstant abuse hybrids, including in the Volunda Air areas, to further characterize and evaluate reaction of new 81 Priceisstant abuse hybrids to the other abuse visus diseases 84" mosaic and bract mosaic; and to determine the performance of the hybrids of employe with different package otherwhologies, including drip irrigation and feetilization/ferrigation.	S Assessed the abaca hybrids against other miglid clieases. S Stablished 51 morelies and 4 demonstration femily fail. B Demonstrates have abace hybrids and judged grip, irrigation/fertigation 8 Distributed 2.5M seedlings to 1,558 abacs farmer	BU, CarSU, CatSU, PhiFIDA V, PhiIFIDA VIII, PhiIFIDA XI, UEP, USEP, USM, UPLB, VSU, WMSU	Famers/Famer Cooperatives, nursery operators, Local Government Units (LGUs), and abaca processors	01-Mar-16	28-Feb-1!	ONGOING	45,670,799	12,229,879
	Rubber, Coffee and Caco: Building Site Matching Functions for Improved Upland Development	Poverty reduction and empowerment of the poor and vulnerable	The project aims to develop site matching functions for four economically important tree crops to all formers in selecting the best sites in planing here crops. Specific depictives include a) seasonment of the performance of incidency, cacoa and coffee in different parts of the country, b) identify and determine the size condition showanch for the growth, survival and good yeld of these species; Q bevelop bit matching functions of each of the species/varieties and to use these functions in developing a site matching software.	1. Assessment of the performance (growth, survival and visited of selected species in different areas in the Philippinion; of selected species in different plantation establishment of selected tree species; 2. Environmental information of selected species stated in the property of the	ERDB	Rubber, cacao and coffee farmers, processors and traders	16-Nov-16	15-Nov-1	ONGOING	3,473,853	944,577

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	S&T Action Frontline Emergencies (SAFE) an Flood Prone and Soil Erosion Intensive Areas Using Bamboo in the Province of Maguindanao, ARMM	Rapid, inclusive and sustained economic growth	To demonstrate how to reduce soil erosion along Rio Grande de Mindanao in the province of Maguindanae by plpanting bamboo along the rivertunis.	Var. 2: Products: 30,000 bamboo seedlings produced in the central nursery and sub-nurseries Products: 30,000 bamboo seedlings produced in the central nursery and sub-nurseries Products: 30,000 bamboo seedlings produced and distributed to different beerficiants (for bamboo products: 30,000 bamboo seedlings produced and distributed to different beerficiants (for bamboo produced and seedlings) and seedlings of bamboo 9.0 no video documentation on the status in terms of retreatment of the status in terms of the status of the status in the status in terms of the status in t	MSU- Maguindanao	The target beneficiaries of the project are the farmers, hithermon and residents long the 78 hin Ro Grande de Mindlano towersign within the political boundary of the Province of Magaindaries and the small scale bamboo entrepretieus in the province.	01-Apr-17	31-Mar-20	NEW	4,874,434	2,233,052
	S&T Based Farm on the Use of Trichoderma Microbial Incoduant (TMI) for increased Survival and Early Establishment of Tree Crops in Cacao-Coffee Agroforestry System for the Aysas (Magbukun Tribe) in Kanawan Negritos Reservotion Area in Morong, Bataan (OI Title: Éstablishment of Species-based Cacao-Coffee Agroforestry System in Kanawan Negritos Reservation Area (KNRA) in Morong, Bataan)	Rapid, inclusive and sustained economic growth	General: To integrate the use of compost and Trichodeman microbial incodant (TMI) in Arps a gordinary byten to nearch legister univival rate and resibilihment of the recognisin inferestations that and install tool of Arps families in Kanawan Negrito Reservation Area in Morong, Bastant, thereby presenting a long term behildred option for the This area will accurately and responsible to the properties of th	Year 1 1. Change in attitudes and responses of the Aytas to the agricultural interventions presented by the project; 2. Strategy for Ayta families' adoption of planting of Coffee and caso in their farm lost; 3. 30% increase of yield of Aysa small agricultural lorge, 4. expansion of forest cover in the reservation from 28 ha sec forest to 30 hs; viable agroflorestry system in the reservation; Year 2	UPLB	The Majebuloin Aytas in the KNRA in Morong, Bataan	27-Oct-16	26-Oct-18	ONGOING	3,151,235	806,604
	S&T Based Social Enterprise Development and Piloting for the Marginalized Sectors of Los Baños		Gemerá Oljective. Develop and pilot test S&T-based Social Enterprises for the drug related vulnerable populations Specific Objectives 1. Describe the socio-economic profile and specific circumstances of selected respondents from the determined marginalized sectors of los Baños 2. Determines their values, aspirations, skills and knowledge 3. determiny S&T based coulci enterprise that match their aspirations, skills and knowledge 4. Assess the based enterprise landropper in Los Baños 4. Assess the based enterprise landropper in Los Baños 4. Assess the based enterprise landropper in Los Baños 6. Develop and pilot test S&T-based business models or enhance existing ones 7. Foster multi-taskeholder partnerships and linkages including policy makers for social enterprises in Los Baños 8. Foruse the sustainability of the protect by fostering multi-stakeholder partnership and including linkages particularly with the LGU of Los Baños.	drugs; 2. Auessment of needs and opportunities of economic productivity and social integration of those considered vulnerable to illegal drugs; 3. Documentation of the values and suparisons of those considered vulnerable to illegal drugs; 4. Profile of social enterprise Indicacpe in Los Baños; 5. Identification of the needs and opportunities of the social enterprises in Los Baños; 6. Number of trainings and workshops conducted for capacity building of social enterprises; 7. Business models developed and joil tested for benharing estating or new social enterprises;	UPLB	1. People who surrendered due to litigal drug use and drug trading, including their family members 2. Municipal government of Los stafos, and especially the village study sites 3. Local NGO 3 People's or community based organizations 4. Government agencies such as DSWO, PWP. DA, DOST	15-Nov-16	14-Nov-18	ONGOING	4,992,454	1,083,364
	S&T Community Based Farm on Strengthening the Abaca Production Through Rehabilitation and Nursery Management in Sogod, Southern Leyte	Rapid, inclusive and sustained economic growth	1. To improve farm productivity and increase the productivity and increase the production of quality filter than the current Subjects (1974) vis 1200 (July Apis visiting 2017) due to use of high vielding and vince resistant hybrids (1974); 2. To showcase the S&T based farming of abacs through the establishment of 2 demonstrations and curvey farms for Info yabacs. 3. To provide common service facilities to the 4 dentified parameters. 4. To build capabilities of beneficiaries through trainings. 5. To build and enhance active linkages with other NGAs, SUCs, LGUs, Garmer groups, processors and market clients.	I. Established four (4) numeries for WRVI abuse. 2. Established four (3) demonstration forms at 6.0 feature each for Walbasa. 3. Devoloped on (1) training model on hybrid abuse production. 4. One marketing agreement forget 5. Trained at least 10 abuse farmers and 10 personnel from partner member agencily/rejicet, staff on the appropriate SR Trainer-writention for abuse production (Training on abuse fiber grading and dessification/jointry, 6. Improved cultural management and post harvest facilities. 7. Increased veil fromgly the use of improved straping machines as common service equipment in the four (4) barrangeys.	DOST 8	NGAs, SUCs, LGUs, farmer groups, processors and market clients	01-Dec-14	30-Nov-17	ONGOING	3,812,664	1,806,490
	S&T Community-Based Farm for Oyster Mushroom Production as an Alternative Source of Livelihood in Disaster Vulnerable Areas in Region 1	Rapid, inclusive and sustained economic growth	To provide alternative source of levelthood to the disaster voltnerable communities of Region 1 using the Must room production technology through STCBF approach.	Product: Such indepties transferred; 9000 feuting bags; 10000 per province); 10,500 kg mushroom (10,500 kg). People and Services: 3 farm dusters (1 per province); 15 sterholistans trained (from RGU) and MRGU) 15 trainings for province); 25 trainines; 3 betworknotes established (1 per province). Places and Partnerships: 4 MOA/MOU signed (1 per province: SUC-GGU-Custer; and 3 MOA among SUCS). Places and Partnerships: 4 MOA/MOU signed (1 per province: SUC-GGU-Custer; and 3 MOA among SUCS). Places and Partnerships: 4 MOA/MOU signed (1 per province: SUC-GGU-Custer; and 3 MOA among SUCS). Places and Partnerships: 4 MOA/MOU signed (1 per province: SUC-GGU-Custer; and 3 MOA among SUCS). Places and Partnerships: 4 MOA/MOU signed (1 per province: SUC-GGU-Custer; and 3 MOA among SUCS).	UNP	-Farmers - Fahermen - Women's Organizations	15-Apr-17	14-Apr-19	NEW	4,043,006	2,247,003

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	S&T Community-based Farms (STCBF) for a Sustainable Cacao Production in Bukidnon	Rapid, inclusive and sustained economic growth	General dejectives. This project aims to promote case IVI new plantations for a Climate Chaege Primed and sustainable Case Production in Buldwinn / Notherth midnates through the Science and Technology Community-Based Farms (STER) approach. Specific Objectives. 10 or establish one be heatize organic cases IVIV buldwood garden and nursery (accredated by BPI) in CMO, Buldwinn, U) To capacitate the rard people of Buldwinn in organic cases IVIV buldwood garden and unservery affects of the Community	lear 1 a. Established and maintained at least eight linkages with various caso stakeholders; b. Organized four (4) custers of 37 accaso famers from four (4) municipalities; c. Capacitated at least 42 casos famers, OM stadin, and Custerhosism on caso nursey, budwood garden and plant attoir establishment and management, d. Established conhectane accredited case nursely and control of the control	CMU	Cacao tree growers and other farmers	01-Aug-16	31-Jul-19	ONGOING	4,724,073	839,767
	S&T Community-based Farms (STCBF) on Promoting Rubber Plantations in the Province of Basilan, ARMM	Rapid, inclusive and sustained economic growth	General Objectives: To upscale the application of SAT interventions and expand the area for nather through measure production of high quality glanting materials, thereby, increasing productively of nables through in assaue production of high quality glanting materials, thereby, increasing productively of nables as also in Province, Septic dispetants: 1.0 powers devid nabigation of the recommended technologies through the community-based STBF modality of at least 100 rubber farmen, including members of 3 ABA cooperatives, 2 Extendible a central nursery and budwood garders that will cetter and sustains small nables growers and would be growers by 2015 onwards; 3. Assist the agratina reform beneficiaries (ARBs) cooperative for source growers with highly productive and certified clones; 5. Encourage small amens strongch the occupant when the output intervent of the control of the co	Established one according richor numery (ICS ha) and huderood garden (ICS ha) as an incomedimentality Program under the management of Bastan State College, Na. Clara Carregory, to Organized frost culture of numerical resolution and processing in those four barranges of lamitan City, C. Capacitated 30 85 (ICS stattle esisted and processing in those four barrangesy of lamitan City, C. Capacitated 30 85 (ICS stattle esisted to nursey and budwood parden establishment and management, d. Capacitated around 65 famers (CUI technicians and interested nursurs) operation or various skills related on under a resolution of the contract of	BASC, DOST ARMM	Nubber tree growers/ farmers	01-Mar-16	28-Feb-18	ONGOING	2,000,000	1,390,041
	S&T Community-based Model Farm on Bamboo and Bamboo Woven Products: An Eco/Agri Tourism Theme Park in Maasin, Iloilo City	Rapid, inclusive and sustained economic growth	General objective: Showcase tourism-technology convergence through the demonstration of S&T-based technologies on increasing bamboo production in Maasin, follor as an ecotourum destination; Societic Objectives: 1) Exvertise part of the first world showcase S&T-based technologies in immanging bamboo results of the societies of t		ERDB	Bamboo growers/ Weavers	01-Mar-16	28-Feb-19	ONGOING	3,758,812	1,044,604
	S&T-Based Agricultural Farming Interventions on Resilient Pill Nursery and Plantation Rehabilitation Typhoon Nona Stricken Mondragon, Northern Samar	Rapid, inclusive and sustained economic growth	General: To increase the prospagation of high quality Pill trees to reditate the Ris industry in Northern Samar and enhance the capabilities of Pill farmers in nursery and onchard management. Specific. 1. To establish and operate two hyshono-realisent Pill nursery and scion growe of one hectare per alle for the prospagation of high yieding Pill planning materials. 2. To distribute and prospage 20,000 Pill selling using NSC-accredited Ril vanieties/lines identified in Northern Samar: Associated the prospage 20,000 Pill selling using NSC-accredited Ril vanieties/lines identified in Northern Samar: Associated the prospage 20,000 Pill selling using NSC-accredited Ril vanieties/lines identified in Northern Samar: 4. To train and saissit the farmer cooperatory/beneficiates in the establishment/re-establishment, nursery care maintenance of Pill farms using recommended cultural management practices. 5. To develop a protocol for nursery and orchard establishment and management available under local conditions.	people and Services. 1,000 Emero-beneficiaries/congentors. I trainings conducted out: Pureus statishilimental red substitutionental and column danagement conducted. 2 policy conforming to LGU conducted at the end of project, 1 existing UEP Nursery and Socion Groove to be utilized and rehabilitated. Partnerships, / landages to be established between the LGUs, Academe, NGAs and Partnerships. 4 partnerships, / landages to be established between the LGUs, Academe, NGAs and Partnerships. 4 partnerships, / landages to be established between the LGUs, Academe, NGAs and PAGNESS & DOSS's, and DOSS's AUPL CAU Mondages. PAGNESS & DOSS's and DOSS's AUPL CAU Mondages. PAGNESS & DOSS's and DOSS's AUPL CAU Mondages. PAGNESS & DOSS's AUPL CAU Mondages. PAGNESS & DOSS's AUPL CAU MONDAGE AUPL CAU MONDAGE AUPL CAU AND	DOST Regional Office No. VIII	Poli farmers, farmers' associations in Mondragon, N. Samar	01-Jul-17	30-Jun-18	NEW	2,392,310	2,100,310
	Science and Technology Community-Based Farm (STCBF) on Spray Chrysanthemum Production	Rapid, inclusive and sustained economic growth	General To upscale the S.B. T intervention found to be profitable in the regular STBF that would increase recome and upliff economic status of small scale framers. Specific. I. To principle witer adoption of the recommended technologies for short-antiherum productions Specific. I. To principle witer adoption of the recommended technologies for short-antiherum productions specific. The specific of the specific	Product: Improved quality of spray mum cutflower People and Services: Custered & trained tarmers People and Services: Custered & trained tarmers People and Services: Custered & trained tarmers Pedices and Petarticips: Converge arterials with LGU- ta Trinidad, LATCOGA and BSU- Pedices and Content of the Converge production technogolide (1) Publications: Spray-mum cutflower production technogolide (1) Publications: Spray-mum cutflower production for good agricultural practices (GAPS) for spray chrysanthemum production	BSU	la Trinidad Cufflower and Ornamental Growers Association (LATCOGA)	01-Apr-17	31-Mar-19	NEW	3,855,963	1,617,915

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Science and Technology Community-based Farms (STCBF) on Improved Murey Management, Budwood Garden Establishment, and Intercropping Schemes to Promote and Expand Rubber Farming in Cotabato Province	Rapid, inclusive and sustained economic growth	General objectives. This project aims to showcase the recommended budwood garden and nursery management and intercoping schemes to improve the productivity and profitability for her obber smallholders in soferied plot areas of Makilala and Nidapawan Chyrin Cotabato province through the SST Community shaded Florm STGRIP approach. Specific Objectives. 1. To integrate SSI interventions into existing budwood garden and nursery management practice of the nursery operations by produce at least 10,000 quality planting materials management practice of the nursery operations for produce at least 10,000 quality planting materials for the expansion of robber plantations in the province and in other potential areas in the region. 2. To promote the surviver and high-yelding nurser and high-yelding nurser and high-yelding nurser and high-yelding nurser and high-yelding operation and management, in plantation management; and in rubber dones, mannyle garden establishment and management, in plantation management; and in rubber takes production, 4. To introduce high-value correspond to the control of the production of high value correspond to the production of the production of high value for the productively (in rucening and extra the production of the production of high value control and productively (in rucening and extra 100 planting and the folial management and the production of high value control and productively (in rucening and extra 100 planting period but shot over a correspondent of the production of the	1) Organized the 10 nursery operators (three of which represent existing cooperatives) from the universitiest of the side of the common of the	USM	Rubber nursery operators and Rubber tree growers/ farmers	01-Jan-16	5 31-Dec-20	ONGOING	4,993,620	1,071,660
	Science and Technology Model Farm (STMF) on Integrated Rice and Rice-based Package of Technologies	Rapid, inclusive and sustained economic growth	General: To showcase the economic advantages of applying the recommended package of technology into a commercial scale of rice and rice-based products Sepecifically, the project sims: 11 to promote where advantages on the modelly 2/10 achieve 5- sepecifically, the project sims: 110 promotes on the control production through STMF modality 2/10 achieve 5- 30% increases in yeldowing vest and dy seasons through the use of best high yielding interfed and hybrid- rice varieties and pre-identified and tested BMPs on rice 3/10 for three capacitate the trained farmer cooperated and farmer adopters on improved rice and rice production package of technology 4/10 create and strengthen inlarge/partnership with development stakeholders, local and institutional markets of marketable products to be produced.	1) Established 20.25 ha rice production areas through the adoption of rice ICM and rice-based POT in Masalass, Tarlac 2) Obtained 30 tons (05) and 8 tons (WS) from rice production through use of best high yielding indee and privide varieties and pre-identified and letted BMPs on rice 3) Capacitated farmer beneficiaries on integrated farming systems 4) Established linkages/partnership with local and institutional markets and other stakeholders	PhilRice	Rice farmers	01-Jan-16	5 31-Dec-18	ONGOING	4,579,270	1,973,280
	Science and Technology Model Farm (STMF) on Mango Production in Pampanga	Rapid, inclusive and sustained economic growth	General Objective: To showcase the excoronic advantages of applying the package of technology (POT) nisk commercial scale image farms, Specifically, the project sims 1 (1) to promote weier adoption of the POT on marge through the STMF modellity, 21 to capacitate the farmer cooperator and adopters on improved to organize the production of management and deplotes on improved commercial formation of the STMF modellity of the scale in the control of the STMF modellity of commercial formation of the SST interventions.	1. Established STMF adopting the POT for mange consisting of 200 fruit bearing trees (10 years old) 2. Practice disproved crop management practices for mange 3. Preference operator acquainted with major insect pests and diseases of mange and 4. Established collaboration and convergence of various stateholders, LGUls, Nota and local organizations on extensive technology transfer institutes on mange production 5. Formation of mange grower association or farmer cluster composed of 15 members 6. Trained at least 20 surms on CMA, POEM and IPM 7. Practigage III can'll extension (200 per control of production based on STMF experience and particular)	BPSU	15 Margo grovers	01-Mar-15	31-May-17	ONGOING	1,357,440	40,100
	Screening for Radionuclide Contamination from the Fukushima Accident by Jodine-129 Measurement in Corals from the Philippines	Integrity of the environment and climate change adaptation and mitigation	Askers, reducative, contamination from the Fulushima Dalich nuclear power plant accident (FDNPPA) to the Philippines, which has Philippines, which are Philippines, which are plant to the Philippines, plant to the Philippines, and buseline radioactive levels before anthropogenic nuclear era (before 1950s). In which plant to the Philippines, particularly through the Pacific Cecen circulation and the Kurosho Recrudation (orger or Kild and its variabilities. In which are plant to the Philippines, particularly through the Pacific Cecen circulation and the Kurosho Recrudation (orger or Kild and its variabilities. In the Philippines of Philippines (Philippines Philippines) and the Philippines (Philippines Philippines) are particularly through the Pacific Cecen circulation and the Kurosho Recrudation (Philippines Philippines Ph	Place * A laboratory for 129/127 analysis Publication * 2 local and 2 international conference presentations. * 3 local and 2 international conference presentations. * 2 local and 2 international conference presentations. * 2 log publications Publications * Publications for andionuclide contamination from the Fulushima accident to noortheastern Philippines and for similar future incidents	PNRI	Regulatory Bodies, LGUs, Research Institutions, Academie, and the General Public	15-Sep-17	7 14-Sep-20	NEW	7,623,639	2,613,921
	Shelf-life study and commercial production of polyclonal antibody for abaca bunchy-top virus (ABTV)	Poverty reduction and empowerment of the poor and vulnerable	Sudy the shelf-life and stability of the generated artises to determine the stoopbility of the lit especially under practical conditions such as storage under ambient from temperature) conditions or cold storage.	Data on the shelf-life and stability of generated materians at ambient froom temperatural and cold strange conditions, but changing materials maintaining activity of the antisers during storage; 48 ml of ABTV antisers; and Cost and return analysis	vsu	Tissue culture liboratory operators, abasa growers, nursery operators and BPI personnel; extension workens; researchers	01-Feb-13	31-Mar-19	ONGOING	2,008,508	26,400
	Sacia-economics of the Emergency Agricultural Food Supply Chains for internally Displaced Persones (IDPs) affected by the Marrawi Crisis	Rapid, inclusive and sustained economic growth	To contribute to the Government's efforts to alleviate the condition of Maranra's internal plaqued persons through an inter-agency collaborative effort. Specifically, the project aims to provide relief austistance to internally displaced women and children affected by the Maranra's Sege in Bigan City.	Feegle & Partnerships 3 MOA/NOU signed with cities 3 MOA/NOU signed with cities 3 MOA/NOU signed with other 3 Project team members (staff & LoSU) properly coordinated and mobilized 3 Complemented the basic rushridous ineed of children from 10,000 equal team of the coordinated in the coordinate of th	MSU- Maguindanao	Direct: Internally Displaced Households Indirect: PLGU and LGU Coordinators	01-Sep-17	7 31-Dec-1:	7 NEW	4,999,680	4,999,680
	STCBF on Sutainable Mango Production in Pullian, Bulacan	Rapid, inclusive and sustained economic growth	General: To increase the profactivity of mange growers and upcale the application of science and schedology (SSR 1) interventions com maging times in hallow, falsow. See the contraction in the second science of the contraction mange or chards that would showcase the different schedologist that were applied for the magno ordands; it is redwisce applied upon the profaction of the organized mange obster of local partners in improving productivity and in discernisting the schedologist. If any order the most appropriate technologies in the provinced management practices that would increase yield through collation with other agencies and the SAT community-based terms modality, and d. To evaluate the profitability of the SAT intervention through cost and return analysis of each mange or chard.	Industry Level One (1) analyse-based farm disater adopting S&T-based intervention on mango production Established STGEIs using the S&T interventions for mango production in a total of around 0.1 ha date area (1,0.00 resp. in Pallas, Busbase interproved management partiests in mango production of 20 farmers Average increased yield by 10-15% per season (firm 9.12 MT Its 1 - basedine average yield statistic from planes 1 of the SAH-20.515 project, to 10.00 MT Its 1 - 20.15 and 11.03 MT Its 1 - 20.17) Produced quality mango firsts Mango growers Index to disastictional buyers Capacity Mullifege. A produced the partiest of the produced produced to the produced the partiest of the produced the partiest produced the partiest produced the partiest produced the partiest produced the produced three (1) forms of information dissemination materials, i.e., video, pamphlets/fechno- guides and souverin irems/folders	BASC	30 coconut farmers in Barangay Lawaguin, Nagcarlan, Laguna	01-Nov-15	30-Jun-18	ONGOING	2,758,390	721,519

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Strategic Communication Planning and Development of Communication Support Materials for the DOST-PCAARRD Innovation and Technology Center (DPITC)	Rapid, inclusive and sustained economic growth	1. Provide technical advice and support in evolving appropriate messaging for PCAARED's awareness and information discensions tools. 2. Provide guidance in the following areas of the communication planning process: 3. Need analysis. 4. Need analysis. 5. Pretesting of the materials. 6. Development of Morehopment of messages and materials distribution plan, and e. Monitoring and feellulation. 7. Finalize and prepared for reproduction of communication materials that can highlight and strengthen the relevance of IAED intuitives in overall national development agends, and 4. Footer sustainability by conducting a series of inpublishing building training-workshops for DPTC staff on relevance appreciation.	1. Communication Fain for the DPTC 2. Communication stategies and communication support materials as may be identified during the workshop (e.g. newsitetre, inchurer, compendum, etc.) 3. Four (eff. Audio-End generations (violed communication) of SAT products and R&D initiatives 4. Yrained PCA-0890 Staff and consortum partners	UPLB	0	08-May-17	07-May-1	8 NEW	1,800,000	1,800,000
	Strengthening the Partnership of the Consortium and the Stakeholders in Western Visayas to Promote S&T Action fo Emergencies and Risks in the Agriculture, Aquatic and Natural Resources Sector		General To strengthen DOST and PCAMATO programs, projects and other tie-up through closer partnerships and collaborations with each of the DOST Regional Offices across the nation Specific 1) To enhance our ANAR technology transfer efforts in the regions through increased partnerships of PCAMATO and the DOST Regional Offices, 2) To promote more S&I immunitions and strategies especially those apported by PCAMATO and/or DOST in the ANAR section STO increatingles and selectioners 3) To integrate the involvement of DOST and assist PCAMATO-funded technology transfer activities and projects in the regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	1) Packaged and approved at least seventeen (17) technology transfer and pronoxion projects in 17 regions, 2) Assisted at least seventeen (17) communities across the nation; 3) Seregibered retrieved and inlaigue, which the 17 regional offices 4) Froged and signed seventeen MOAs with the DOST regional offices	DOST Regional Office No. 6	to assist communities in emergency- and hazardalfected ress, magnitude farmers and fisher folks, upland dwellers, ndigenous communities, garden reform beneficiating (ARES), even drug rehabilities, as well as groups of women, out of school youth, sension/jelders, refer termenes, operability those from the poorest of the poor provinces in the country	15-May-17	30-Sep-1	7 NEW	300,000	300,000
	Suitability assessment and database development for enhanced mussle culture management using geospatial technologies	Rapid, inclusive and sustained economic growth	The project will assess and analyse suitable areas for muscal culture in the Philippines using available geospatial technologies. Specificially, 1 clarify potential state (including non traditional areas) for muscal culture based on established criterie; and 2. Develop of database to identify suitable areas for muscal culture	Year 1 il Sentifiel(Surveyed potential sine for mussel culture. 14 Mago of monthly forcophylla, sea survive, temperature and alimitly in the Philippine area Year 23 GIS-based maps of suitable areas for mussel culture in the Philippine based on physico- chemical and biological parameters 3. Database for suitable areas for mussel cultur.	UPD, UPV	The present research initiative is forceren to augment the program is providing the basic information and management decision to clasmorary policy makeny/researches/regulations and stakeholders. Other stakeholders, that would benefit from the results of the projects includes: Fivilite inventors in suitable area, finiterfolk who will be culturing muscle for supplemental levelihood, BFAR Extension Personnel, and Local Convernment Unit and educators/Researchers	01-Jul-16	i 30-Jun-1	7 ONGOING	2,282,572	1,129,842
	Support to the Issuance of Fairness Opinion Report for Technology Transfer Activities of PCAARRD	Rapid, inclusive and sustained economic erowth	To provide support to RRIs in their request for fairness opinion by the DOST Secretary as a legal requirement for factorology transfer schizing of government-funded research projects by covering the costs associated in the expert engagement of the Fairness Opinion Board	Year 1: Seven (7) proposed transactions granted with fairness opinion by the DOST Secretary Year 2: Seven (7) proposed transactions granted with fairness opinion by the DOST Secretary	TAPI	Research Partners/Network of PCAARRD	01-Oct-16	30-Sep-1	8 ONGOING	5,891,968	1,156,655
	Support to the Preparation of Freedom to Operate (FTO) in the Technology Transfer Activities of PCAARRD-funded Projects	Rapid, inclusive and sustained economic growth	General Objective: To implement the Freedom to Operate Analysis of PCAARBD-funded technologies. Specific Objective: 1. Assis PCAARBD and the technology developer(s) understand the threat of patent litigation on a particular technology; 2. Assos the potential of a technology for commercial application: 2. Assos the potential of a technology for commercial application: 3. Foreste Bath the commercial application of a technology, marketing, and use of the new product, process 4. To case staff from TAPI, PCAARBD, DODR TRUS and SUCs with PCAARBD-funded projects on FTO; and 3. To establish an FTO Unit at TAPI-DOST.	1. At least 14 technologies are assessed for Freedom to Operate 2. Trained 25 DOS Froemed and SUE Researchers on FTO review 3. Established FTO Unit at TAP-DOST	TAPI	PCAARD Management and Secretariar / Research Partners/Network of PCAARD	01-Oct-16	31-Mar-1	8 ONGOING	5,000,000	1,010,324
	Sustaining Crop Productivity in Climate Vulnerable Areas in Ilocos Norte through STCBF on Climate Resillent Technologies	Integrity of the environment and climate change adaptation and mitigation	The project is envisioned to lead to a more effective and efficient production of climate resilient crops, PH and marketing for the commodity crops for sustainable production. Developed, refines and user-friendly crop-based technologies will be extended and adopted by the beneficiaries to help farm production.	1. Established 10 demo projects to showcase the potential of varios crops resilient varieties; 2. Increases farm productively through utilization of integrated appropriate crop-based farming technologies; 2. Increases farm productively through utilization of integrated appropriate crop-based farming technologies; 2. Conducted on the control of the	MMSU	community members from the different drought, typhoon flood- stricken municipalities in flocus Norte.	01-Jul-17	30-Jun-1	9 NEW	4,915,348	2,458,674
	Technology Assessment of PCAARRD-Funded Research Projects	Rapid, inclusive and sustained economic growth	is general, the project aims to saces the research outputs from projects that received funding support from PCAARBO on the stage of level of readiness for commercialization. Specifically, to determine if PCAARBO-funded research projects have potentials for: [1] intellectual property protection; [2] commercialization; and [3] further research.	Year 1. 20 projects and 30 technologies assessed as to the stage or level of readiness for commercialization potentials. Year 2. 20 projects and 30 technologies assessed as to the stage or level of readiness for commercialization potentials.	TAPI	PCAARED Management and Secretarist / Research Partners/Network of PCAARRD	01-Oct-16	30-Sep-1	8 ONGOING	5,782,794	1,207,052
	Technology Demonstration and Capacity Building for Lowland Vegetable Production	Poverty reduction and empowerment of the poor and vulnerable	General: The project aims to demonstrate matured technologies on vegetable production through modalities in a year-round basis taking into consideration the principles of production, creativity, and technologies on Inmust registerin, policies, and in the ground; 1.6 showners NCS-opported lowand and open-politizated varieties of vegetables, use of biological control agents, botanicals, microbial incoulants, and other matured production technologies, and 3.7 op promote economically-visible vegetable production through trainings, field days, and distribution of EC materials.	1st year—established a technology demonstration area for POTs and serve as a learning venue for actual viewing of the public. 2nd year-increased number of POTs implemented in Technology demonstration area. Catered visitions from various section. Techno trainings with on-farm immersion activities in the technology demonstration area. 2nd year-increased number of POTs implemented in Technology demonstration area. Catered visitions from various section. Techno training with order immersion activities in the technology demonstration area. Catered visition from various section. Techno training with order immersion activities in the technology demonstration area. Thorsible implemented in organic and a conventional vegetable production beveloped IC materials for distribution to clientels.	BPI-LBNCRDPSC	Local and international organizations, students from state colleges and universities, local government etchnicians, farmers, and enderlocals who frequency via clue Salton is caugher information and technologies on vegetable production.	05-Jan-15	04-Jan-1	8 ONGOING	4,999,365	1,122,518

Program Title	Project Title	Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	Testing and Evaluation of Machinery Generated from PCAARRD-funded Projects	Rapid, inclusive and sustained economic growth	General To develop standards and conduct testing and evaluation of agricultural machinery generated from PCARRBO-Bunded projects. Specific 1 To desiry the machines funded by PCARRBO-Bunded projects that are ready for commercialization with exacting Philippine Agricultural Engineering Standards, those with international standards, and those with not standards yet. 2. To develop standard test methodologies for machines without national of international standards. 3. To test and assess the performance characteristics of the following machines ready for commercialization using the available standards or developed standards methodology: a Middish Automatic Yo Counter C. Middish and Swimp Automatic Surface Feeder d. Middish and Swimp Automatic Surface Feeder d. Signeheated Standard Test Testing Standards on the Production e. Fluidated Biol Developer Testing Standards on the Production e. Fluidated Biol Developer Surface Mozele b. Hand Trastor Mitschafel Rick Havester (9 Hg) b. Fortable Manage Prover Sprayer Notzele L. Rick Testingshated (Product) d. Rick Testingshated (Projec) n. Rick Contine Harvester (Inding type) n. Infrared Grain Development of Cont Interly production c. Penant. Shelfer L. Middish Storage for Penant, and	Publication, Policies: J. Philippine Agricultural Engineering Standards (PAES) on Specifications and Methods of Test for the following michigen while the developed: a. Milifich Automatic Fry Counter b. Milifich Automatic Fry Counter c. Milifich Automatic Fry Counter c. Milifich Automatic Fry Counter c. Milifich Automatic Surface Feeder d. Allege programs of Proteinment f. Pennat Stripper g. Built Stonge for Pennat h. Feed Pelletize People and Services: 2. Test reports of the following machines that were generated from the PCALARDO hundred projects shall be prepared. Compact Res Millimpeler-typel d. Rice Combine Harvester (Indicate) and Tractor) d. Rice Combine Harvester (Indicate) and Tractor) f. Rice Transplanter (Indicate) and Tractory f. Rice Transplanter (Indicate) and Tractory f. Rice Transplanter (Indicate) and Tractory h. Rice Seeder (Indicate) and Tractory h. Rice Seeder (Indicate) and Tractory h. Rice Transplanter (Indicate) and Indicate k. Integrated Mulicip Organization o. Pennat Select J. Indicated Composer Neurolation o. Pennat Select J. Milificate Machinery (Indicate) and Supracenen n. Per Ingristion (Ing. pennat and sugercanen) n. Feed effective (Ing. and test opposition) o. Pennat Select J. Milificater Grantory (Joseph Select J. Milificater (J. Milif	UPLB	1. Technology Generators (SUCs, 2015) 2. Technology Adoptives (Machinery users, Manufactures/Fabricators) 3 Other Agricultural Machinery Industry Stakeholders	16-Jun-17	15-Dec-18	NEW	2,126,931	2,126,931
			t. Bulk Storage for Peanut, and	s. Milkfish Mechanical Bottom Feeder t. Milkfish and Shrimp Automatic Surface Feeder							
	Towards a Strengthened Technology Commercialization Process through Facilitation and Preparation of Business Plan of PCAARRD-Generated/Assisted Technologies	Rapid, inclusive and sustained economic growth	General: To strengthen the technology commercialization process through the development of appropriate market- responses business palan for specific agriculture/laqua industry-based technologies funded/generated by OGO Through (PAGMAD). Specifically, the project aims to: Secretifically, the project aims to: Secretifically, the project aims to: Secretifically commercially appropriate processes in acquiring and involving consultancy services of firms; 2. Force a basion channel amongst concernal substitution of the delivery of outputs: and 3. finance the timely and quality preparation of business plan and technical reports through efficient monotoring and validation activities.	People and Services. At least 15 Bourieses Plans for PCAARBO generated/assisted Technologies; at least five project staff trained on procurement process. Publications: 15 house business plans published in-house Publications: 15 owners are published to the published in-house Published PCAARBO-TAPA partnership; at least four TAPA-service providers partnership.	TAPI	- Technology Adopters/Investors - Technology General Technology General Telesarian and Development Institutes/State Colleges and Universities - DOTF (particularly PCAABRD and TAPr)	01-Jun-17	30-Nov-18	NEW	4,920,085	4,484,409
	Toxicological Study and Pilot Testing of Nutrio™	Rapid.	General:	Year 1: Data/Information generated from the results of toxicity	UPLB	Farmers, consumers, entrepreneurs, researchers, students	16 Nov 17	15-May-20	NEW	5,000,000	2,348,747
	Biofertilizer for improved Production of Sugarcane in Regions III and VIQId Title: Toxicological Studies of Newly Developed Biofertilizers for Various Crops)	inclusive and	To conduct touckological study of intereducter sacchars 15th, the microbal component of shutnoff bit one surve the biosafety of the seculatin and to validate under field condition the NutrioTM bioderfallister's performance for improved production of sugarane in Regions 18th and VL. Specialize. 31 to assess the safe use of NutrioTM for sugarane production; 31 to assess the safe use of NutrioTM for sugarane production; 31 to conduct point for testing of NutrioTM for sugarane production in the safe of the	test of NutrioTIM 19 Year 2 and 5: Villdstedt technical and economic efficiency of Nutrio biderellizer, increased capacities of stakeholders including farmers and technicals through conduct of trainings; package of Nutrio biofertilizer technology for sugarcane.				,		3,23,73	<i>y</i> , , , , , , , , , , , , , , , , , , ,
	Use of Carrageenan Plant Food Supplement (PFS) for	Rapid.	General: To determine the effect of foliar carrageenan PFS and synthetic fertilizer combinations on the	a. Increased yields of the test crops by at least 20% per cropping b. Reduced quantity of chemical	BSU	If local farmers engaged in the production of cool-season crops If	01-Oct-16	30-Sep-18	ONGOING	5.000.000	2,819,992
	Selected Cool-Season Crops (letture, broccoli, cabbage, and strawberry) in Protected Production System	inclusive and sustained economic growth	growth, quality, and yield of selected cool-season crops lettuce, broccol sabbage, and strawberryl under generhouse condition. Specific 1. To evaluate the effects of various levels and frequency of carageman PSS applications on the growth and yield or lesselected cool-season crops; 2. To identify the optimum levels and frequency of carageman supplement application to maximize yields of the text crops; 3. To evaluate the effects or carageman PSS on the unidence of anging interce perts and disease of selected crops; 4. To determine the effect of carageman PSS on the quality of produce; 5. To validate preliminary text results in selected famous feet, and 8. To conduct a benefit cost analysis on the use of caragemens PSS in the production of the selected crops.	fertilizer use by as much as 25%. Ceduced requirement and use of insecticide by as much as 25% of Improved quality of produce in term of Jugar and nutrient contents withhout any contamination. Elemétros analysis of the proposed intervention f. IEC materials and scientific pages on the use of arrangement PS is production of selected crops, g. Conducted training of farmers on the use of carragement PSS.		seawed farmers and processors who could benefit from the increased demand for their products. If courses who would gain access to safer and better quality firsts and vegetables.					
	Utilization of DNA Marker Selection in Breeder and Commercial Swine Farm Units	Rapid, inclusive and sustained economic growth	The proposed R&D project that will be implemented that privatepublic partnership supres to promote the utilization of the most developed gene matter technology in breeding and selection in clost swine population to increase productivity and improve production efficiency of the Philippine swine industry. 1) Promote the utilization and adoption of milecular methods of selection by local swine raisers to improve profilexacy and production efficiency thru the use of a private-sector operated swine genomics service laboratory. 2) Validate and estimate the effect of forerable genotype on different traits both at the level of nucleas (purperfed G&C, Pel) and commercial bents. 3) Provide assistance in the use of genomic alormation in the breeding program for individual herists.	1) Adoption of the gene matter technology by the savie industry 12 fishy operational savies genetic analytical service laboratory for the identification of positive genes and screening genetic directs of swine 3) Laboratory to screen swine genetic disease. 4) Science based data for the formulation of enabling policies for the swine industry to improve its productivity and efficiency the swine of the swine industry to improve its productivity and efficiency the swine industry to improve its productivity and efficiency that the swine industry to improve its productivity and efficiency that the swine industry to improve its productivity and efficiency that the swine industry is the swine industry to improve its productivity and efficiency that the swine is the swine industry to improve its productivity and efficiency that the swine is the swine industry to improve its productivity and efficiency that the swine is the swine industry to improve its productivity and efficiency that the swine is the swine is the swine industry to improve its productivity and efficiency that the swine is the swine is the swine industry to improve its productivity and efficiency that the swine is the swine is the swine industry to improve its productivity and efficiency that the swine is the swine is the swine industry to improve its productivity and efficiency that the swine is the swine is the swine industry to improve its productivity and efficiency that the swine is the swine is the swine industry to improve its productivity and efficiency that the swine is the swine is the swine industry to improve its productivity and efficiency that the swine is the swin	PCC	1) Some Breeder Farms 2) Port producers (Commercial Farms) 3) Academe and Researchers 4) Students	01-Oct-16	30-Sep-18	ONGOING	4,998,389	2,736,841
	Utilization of Modified Drip Irrigation for Production of High Quality Onion and Garlic	Rapid, inclusive and sustained economic growth	incresse yield in vegetable production by 30% through the use of low pressure drip irrigation technologies	Y11ow-cost, modified drip irrigation system for orion and garlic for both off-season and on- season production Water/irrigation management system Y21 horszensky delig good quality orion and graft by 30%. Increased water use efficiency in gas and production by 30% 200 farmers trained Training module and technoguides for orion and grift, production.	CLSU	∃ Onion and gariic farmers ☐ Researchers, agricultural technicians, students ☐ Government agencies, research & academic institutions ☐ Covernment agencies, research ☐ Covernment ☐ Covernment	01-Sep-16	31-Aug-18	ONGOING	4,832,152	1,835,076
	Utilization of plant-based natural anti and pro-oxidants for farmed tilapia	Rapid, inclusive and sustained economic	The project will produce plant-based products a anti and pro-oxidants for farmed	Protocols for improved health management of Tilapia. Products for better performing tilapia.	ISU	(a) 4 hatchery operators in Nueva Ecija and Isabela; and 10 Tilapia growers in Isabela; 10 fishfarmers in Cagayan Valley Region	01-Oct-16	30-Sep-18	ONGOING	4,702,008	903,841

Program Title		Key Result Areas (KRA)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Total Project Cost	2017 PCAARRD GIA
	ded Research Projects inc su ec	nclusive and ustained conomic rowth	This project forms part of PCARRIOS Technology Transfer Pathway, wherein outputs of which would determine the fact of the subjected research projects and technologies whether they shall be commercialized or can only be disseminated, promoted, or rolled out for free to intended beneficiaries. If technologies would be commercialized, the value of the technologies which will be offered to potential adopters should be determined. Together with appropriate if protection this would provide great inverage to PCARRIO and/or is RED institutes (RDI) during licensing inequisitations. Likewise, the Fairms Opinion Board (FDI)S, scerlically requires technologies to be valuated prior to securing a Fairmess Opinion Report (FOIS). As such, this project will cater to valuation of IPs in partnership with the private firms conducting technology valuation. Chipecthes: To assess the value of the research outputs from projects that received funding support from PCARRIO.	16 technologies valued within 2 years	ТАРІ	PCAARD Management and Scretzsis / Research Partnern/Network of PCAARD	01-Oct-16	30-Sep-18	ONGOING	5,916,899	1,667,307