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 gain of the Philippine dairy buffalces through the use of genomic information in breeding and selection.	900 Entitletes samplest 900 Entitletes generaped using 800 ENP general (scal inverse population in worse; Egirk 100 Bull stimmizated, better for beverding better on BLEV breeding values and genotype information on the significant SNP markers, model for estimating genomic breeding values of animals in the information suchesis derived; 8 young bills commission(shelected for breeding based on BLEV breeding 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 eligitation of the project are to examine the stable of glant claim rotocking efforts, especially or replicability field stocks, and assess the adaptation of reseeded and naturality occurring glant claims to environmental changes. The specific objectives are to 1. Survey glant claim recruitment in selected restocking either 2. Assess glant claim tool between the special collective are to 1. Survey glant claim tool begroographic regions differentially impacted by claims of the special collection		UPD	Load communities including the boal government units (GIDs) data will be involed in the monitoring and conversation efforts. The results of the proposed project will be discensised through information, desciona and communication (GIC) materials to be promote gant claim restocking, monitoring and conversation effects to relevant contact communities and government agencies and execution of the control of the c	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 economic growth	The main of objectives of the project are to examine the status of jaint dam restocking efforts, especially on replenshing local tools, and assess the diaptation of reseeded and naturally occurring jaint clams to environmental changes. The specific objectives are to 1. Survey of glant clam recruitment in selected restocking sites 2. Assess glant clam biodinessity in selected sites in Pallwain 3. Conduct information dissemination activity to coast communities and other stakeholden.	End of the project deliverables/outputs 1) Biodiversity of giant clams in selected sites in selected Philippine biogeographic regions differentially impacted by climate change induced thermal stress (in connection with project 1) 2) Status of giant clams especially on giant clam recruitment 3) Information, Education, and Communication (IEC) materials distributed and biodiversity and	ч т	Local communities including the local government units (ISUs) that will be involved in the monitoring and conservation efforts. The results of the proposed project will be disseminated through effortmention, education and communication (ICI) attention to be input countries. 2. Finishment of the monitoring and conversation and will in the long-term contribute to the delivery of valuating conduction and exopytem services. In Beasen's Advisionific community, data obtained from these studies will provide from the conversation and conversation	15-Nov-17	14-Nov-20	NEW	3,803,277	900,543

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
Assessing the Status of Giant Clams and Advancing Culture Techniques	Project 3. Evaluating the status of giant clams in Mindanac	Rapid, inclusive and sustained economic growth	The main of objectives of the project are to examine the status of glant claim restoding efforts, especially on replenshing local tools, and assess the displatation of reseeded and instruity occurring giant claims to environmental changes. The specific objective are too 1. Survey glant claim recruitment in selected restocking sites 2. Assess glant claim bodiversity in selected sites in Mindano 3. Conduct information disamination activity to coustal communities and other stakeholden.	God of the project deliverable/signatus 13 liabs/deventy of glant claims in selected size in three sizes in Mindrason differentially impracted by climate change induced themsal stress (in connection with project 1) 2) status of glant claims a specially or glant claim recruitment 3) Information, Education, and Communisation (ICE) materials produced justification and biodevine) and climate change in a claim of control of the	ONSC	2. Load communities lixidating the blocal government units (2015) that will be involved in the monitoring and conservation efforts. The results of the proposed project will be disseminated through silomation, education and communication [ICI] materials to help promising gain date monitoring units of an arrangement of the control of th	15-Nov-17	14-Nov-20	NEW	6,653,102	1,167,043
Assessing the Status of Giant Clams and Advancing Culture Techniques	Project 4. Development of molecular resources for enhancement of culture and rearing techniques	Rapid, inclusive and sustained economic growth	The general objective of the projects to examine genetic diservity and reveal the molecular mechanisms underlying the grounds and development of genet cleans, to enhance giant claim restocking and conceivation efforts. The specific objective on the project are as follows. Develop transcriptions esquence reconsists of fort too (12) species of giant claims (Professor gigas and T. crocce or T. squarmoss). Z. Compare the gene complement and gene expression profiles of two (2) species of giant claims representing different phenotypes. 3. Stertify genes for giant claim development, growth, symbosis, biomineralization, and stress response.		UPD	Fibhers and other direct users of grooth from coral reder compressions, gride controlled to the refrestation and will in the long-term contribute to the delivery of valuable goods and ecosystem services. P. Research/scientific community data obtained from these trudes will provide further avenues for research related to understanding the belowishing and growth originated than 3. Students: the project will support graduate student exercish and service as patterned for the strange of students in giant claim culture techniques and transcriptione data generation and makings.	15-Nov-17	14-Nov-20	NEW	16,971,166	2,475,389
BOOSTING THE SUGARCANE INDUSTRY THROUGH SMART FARMING TECHNIQUES	Project 3. Development of Nanofertilizers for Sugarcane Production	Rapid, inclusive and sustained economic growth	Make sugarcone production more profitable as nanofestilluers could enhance the efficiency of nutrient absorption and resistance to pests and diseases.	Nacodemizer formulations containing N, P, R, and a combination of N, P, and K (complete) Optimized procedure in the formulation of monoderitizers for supervised Appropriate method and rate of application of the developed rausefurilizers Quantified encomen Perents of using the monoderitizers technology An intellectual property (IP) from the results of the project A content publication on the results of the research project	UPLB	Sugarcane farmers, researchers, students, entrepreneurs	01-Jul-14	31-Dec-17	ONGOING	7,694,428	819,035
Cacao Pest Management Program: Biological-Based Approaches	Project I. Extraction and Evaluation of Pheromones and Kairomones as Potential Monitoring and Managing Tool Against Cacao Insect Pests: Pod Borer and Mirid Bug	Rapid, inclusive and sustained economic growth	1. To extend and identify the see pheremone from CPB and CMB and skirronners from cases ped 2. To purify and synthesis see pheremone and skirronner composition. 3. To evaluate the biological activity of see pheremone and skirronners on CPB and CMB in the laboratory 4. To develop pheremone tures and traps from field testing of see pheremone and laironners in catching CPB and CMB OPB and CMB	Develop effective composition and formulation of sex phenomen and kalonmose for monthorized and managing (26 and CMB B Mass production of purified and synthesis composition of motive phenomen and salonmose for commercialization 3.6 and first togrowers in the rapidly expanding organization and control of the commercialization and control of the commercial salonmose and salonmose and salonmose and salonmose and control of the country's composition and unique interest types of the control of t	DLSU	ne inlography lessed IMP opposite to the developed by this proposed program will stage 8-00% efficiency companed to the existing farmers practice of chemical control and sleeving. Chemical Control commands by the management injury translated to lower control commands by the management injury translated to lower income for the farmers. Additionally, it is not environment friendly, present statisting case out. Another the reproductive transport statisting case out. However it was religious and even more time consuming because clack frees continuous to produce outputs. The control contr	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
Carao Pest Management Program: Biological-Based Approaches	Project 2 Exploration, Identification, Mass Rearing and Field Release 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 7. To refereive the capoo obbrering garbants Trichogammantales are capanged found in Mindanao and the entonopathogens Resouves bassians periosoly found infecting caso mind beg in Luson 3.7 Totes the efficiency of the biological control agents with comfined association with caso pod borer and mired bug 4. Meeting many continues for the selected efficient biological control agents 5. To develop efficient release strategy for the mass reared biological control agents	Is identify and record potential biological control agents of OPB and CMB II Confirmation of biological control agents for mass production. Developing feet release stategy and distribution method for mass reared biological control agents II Developing are rearing manual for small scale farmers' level and commercial scale (for biological control floating.) Per invary investment copportunity in the commercial scale (for biological control floating.) Per invary investment copportunity in the commercial scale (for biological control deptical.) Per invary investment commercial scale (for biological control deptical.) Per invary investment commercial scale (for biological control deptical per invariant country's competitiones on pool quality can be been for for an invariant country's competitiones on pool quality can be been for for an invariant country's competitiones on pool quality can be been for for an invariant country's competitiones on pool quality can be seen for for an invariant constitution of the control of	DISU	the fibility countries are selected fifth programs to the developed by this proposed program will stage 80.09% (inflex) compared to the existing farmers practice of chemical control and sleeving. Chemical Control commands fish management in just varianted to lower exams for the farmers. Additionally, it is not environment fitterilly, restricted to the farmers. Additionally, it is not environment fitterilly, restricted to the farmers. Additionally, it is not environment fitterilly, restricted to the farmers and the farmers of	01-Feb-16	31-Jan-18	ONGOING	3,292,503	1,199,579
Carao 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 Pest Management Program for the control of the major most pests and diseases of cracin major crace pollogical pol	S Describe the lookston, deretfication, possible mode of action, and evaluation of mycoperasitic lookstees of bacteria of regime with potential for follogical control of VIDs and BFR. S. Available nanobio-sensory system for early potential for follogical control of VIDs and BFR. S. Available nanobio-sensory system for early detection and raise response to manage the diseases 8 Erimany instrument opportunity in the commercialization and marketing of follogical control agents. It recruse the country's competitiveness on good quality case beans for food and international markets.	UPLB, PhilMech	The biologically Bassel PMA program to be diverliged by this proposed program that gas 80.0% elitibility compared to the existing farmers practice of chemical control and sleeving. Chemical Control commands high management in unit varianted to lower comme for the farmers. Additionally, it is not environment friendly, except the program of the farmers. Additionally, it is not environment friendly, except the proposed process of the production of the common time consuming because cachot trees continuous to produce produp particularly everyly when in reached reproductive targe. Currently, not all farmers use sleeving because of time constraint and the cost of the placets levens. Chemical control and beening configuration and the cost of the placets sleever. Chemical control and chemical tree control and chemical trees and the cost of the placets sleever. Chemical control and chemical trees are constraint and the cost of the placets sleever. Chemical control and chemical chemical chemi	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 and Diseases Attacking Cacao Pods	Rapid, Inclusive and sustained economic growth	To utilize efficiently naturally occurring particle film materials as biocoating agents to control pests attacking cacao pods	Is identification of best clay particle type and spreader-sticker as biocoating agent against pests attacking case post Impact sessement of the selected biocoating agent against pests attacking case post Development of lifeth embloceting agent will impact session and a selection of the selected biocoating agent against pests attacking case post Development of lifeth embloceting agent will implement opportunity in the coverage for a fewer application schedule II Primary investment opportunity in the men and agent assessment in formation and the properties of the application and impact assessment in formate the country's competitiveness on good quality case beans for local and international markets II Output will be documented in the form of reports, extension materials, and journal articles	DLSU	The Biologically-Bassed IPM program to be developed by this proposed program will target 80 00% efficiency compared to the existing famous practice of demical control and belonicy. Chemical Control commands high management input translated to baser sharing a signal demical control and belonicy. Demical Schemic is a good attended to the chical control rejectably for pasts attacking cases pols, however it is very laborious and even more time conswiping because cache stress continuous to produce pols practically everylar when it reached reproductive stage. Currently, not all famous seed because cache stress continuous to produce and a seed of the control of an ordin to the productive stage. Currently, not all famous sold resolved and the program, all control measures to be developed are biologically and the neighbor interest to the environment. Additionally, this proposed program will make cache freme and agricultural technicies more technically efficient. Famous will generate more income using the biologically based IPM program. Caco beans that will be produced using this system will be for good quality and therefore will be highly competitive in the international market.	01-Feb-161	31-Jan-18	ONGOING	3,702,285	1,403,242
Changing Patterns of Social, Demographic and Economic Conditions of Farmers in Selected Agricultural Production Systems	C Project 1. Changing patterns in social, demographic and economic conditions of farmers in rice 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 reforms and effective agricultural products and agregorial agricultural agricultu	Publishers 13.8 journals/policy later (fail least 1; publishers per commodity) 3.80 oblightighting the social demographic and economic conditions of farmers in selected agricultural production system Flaces and partnerships: 8 ratnership with key government agencies (e.g., NEDA, 6, MAD, AD, DOST and Exhibit), and local government units. B Partnership with POS and 880.7 Policy: 8 Policy forum for advocacy inflatelives 8 Policy recommendations in relation to agricultural removations and government of advocacy inflatelives 8 Policy recommendations in relation to agricultural removations and government of advocacy inflatelives 8 Policy recommendations in relation to agricultural removations and government of advocacy inflatelives 8 Policy recommendations in relation to agricultural removations and government of production systems. Product 10 substances on social, economic and demographic characteristics of dimens in different production systems. People: 3 Improvement of welfare of Filipho farmers and other rural stakeholders.	UPLB	Researchman and extension vorters Research manager and funding and monitoring agencies Trolky and decision makers Rower and decision makers Rowermant institution and research agencies Rowermant units Rowermant units Remains and other rural stakeholders	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 farmers in selected agranulural production system from one releast and effective agricultural production approaches agranulural and effective agricultural production approaches agranulural innovation programs. I exhabitive the social demographic and economic profile of farmers in selected agricultural production system; 2. determine the technology used by farmers in the selected agricultural production system; 3. analyze the pattern of changes in social, demographic and economic characteristics of the farmers; 4. else the social, demographic and economic characteristics with the farmers' (schoology adoption than activation; with the farmer's (schoology adoption) and activation; and the farmer's (schoology adoption) and approaches and agricultural posicies and agricultural innovation program.	Publication 118 Journals/poils prior (et least 1 publication per commodity) 38 obligibility files took (Jeongraphic and economic conditions of farmers in selected agricultural production system States and partnerships: 8 Partnership with key government agencies (e.g., NEDA, OAM, DA, DOST and Exhibity, and Exal government units) 8 Partnership with POs and 8800. Policy 8 Policy forum for advocacy initiatives 8 Policy recommendations in relation to agricultural invoxacious and policies. Product: 8 Database on social, economic and demographic characteristics of farmers in different production systems Pacolle 3 Improvement of welfare of Filiptin farmers and other rural stakeholders	UPLB	3 Researchers and extension workers Stessach musages and funding and monitoring agencies 3 Policy and decision makers Government institutions and research agencies 1 Local government units That mere and other rural stakeholders	01-Nov-17	30-Apr-1!) NEW	4,096,154	3,088,436
Changing Patterns of Social, Demographic and Economic Conditions of Parmers 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: Analyse the changes in the social, demographic and economic characteristics of farmers in selected agracultural production system from one releast and effective agricultural policies and appropriate agricultural selectives and appropriate agricultural selectives and appropriate agricultural selectives and appropriate agricultural selectives and economic profile of sames in selected agricultural production system; 2. determine the technology used by farmers in the selected agricultural production system; 3. analyse the pattern of changes in social, demographic and economic characteristics of the farmers; 4. elette the sexual, demographic and economic characteristics of the farmers; 5. provide specific exomorpation and economic selections and agricultural production selections and agricultural improved agricultural policies and agricultural imposation program.	Publishers: 118 journaly/only herif sit least 1; publishers per commodity) 18 oblightighting the social demographs and economic conditions of farmers in selected agricultural production system States and partnerships: 8 partnership with lye government agencies (e.g., NEDA, OBMA, DA, DOST deal DRIBN) and local government units Fartnership with POs and RBOs Policy 3° Policy forum for advocacy initiatives 8 Policy recommendations in relation to agricultural invoxicous and policies Product: 8 Database on social-aconomic and demographic characteristics of farmers in different production systems People: 8 Improvement of welfare of Filiphro farmers and other rural stakeholders	UPLB	Researchman and extension soviers Research manages and funding and nonitoring agencies a roley and decision makers Government institution and research agencies Local government units Parmers and other rural stakeholders	01-Nov-17	30-Apr-1!	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, caccountable, and participatory governance	General Objective: Analyse the changes in the social, demographic and economic characteristics of farmers in selected agricultural production system from one releast and effective agricultural policies and appropriate agricultural simovation programs. Special Objectives: Carbonic Ob	Publication 0.18 journal/points prior (sit least 1 publication per commonly) 18 policy highlighting the social demographic and economic conditions of farmers in selected agricultural production system States and partnerships: 3P intracenship with live government agencies (e.g., NEDA, GMAN, DA, DOST each States) and local government units. Frantmenship with POs and RBOs. Folicy: 3P policy forum for advocacy initiatives 3 Policy recommendations in relation to agricultural involutions and policies. Froduct: 3 Database on social, economic and demographic characteristics of farmers in different production systems. Pacific 3I improvement of welfare of Filiptino farmers and other rural stakeholders.	UPV	Research and extension soveres Research manages and funding and monitoring agencies a roley and decision makers Government institution and research agencies Local government units Remens and other rural staleholders	01-Nov-17	30-Apr-1!	NEW	4,859,653	3,713,436
Changing Patterns of Social, Demographic and Economic Conditions of Farmers 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 referent and effective agricultural policies and appropriate agricultural innovation programs. Speciel Objectives: Capterio Deliverius: 2. determine the Exchangeaphic and economic profile of larmers in selected agricultural production system; 2. determine the Exchangeaphic and economic profile of agricultural production system; 2. determine the Exchangeaphic and economic damages and economic characteristics of the farmers; 4. existe the social characteristics of the farmers; 4. existe the social characteristics of the farmers; 5. existe the social demographic and economic characteristics with the farmers' (Exchangeaphic adoption). 5. provide specific encommendations for improved agricultural policies and agricultural innovation program.	Addition 13 Sournal/policy berif (at least 1; auditation per commodity) 3 Book highlighting the social demographic and economic conditions of farmers in selected agricultural production system Plates and partnerships: 39 intereship with key government agencies (e.g., NEDA, 000A, 000 A, 000 T and 6504 in and foot agreemment units: 3P Partnership with PO and RIO). Plattnership with PO and RIO). Policy 27 Solicy forum for advocacy initiatives 3 Policy recommendations in relation to agricultural invoxetions and policy. Product: 3 Database on social, economic and demographic classacteristics of farmers in different production systems. Pacific 3T Improvement of welfare of Filiptino farmers and other rural stakeholders.	UPLB	Researchmane, and further in depending agencies Research managers and furthing and monitoring agencies Relicy and decision makers Government insultions and research agencies Sucrement insultions and research agencies Sucrement units Remeas and other rural stakeholders	01-Nov-17	30-Apr-1!	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	reduction and empowerment of the poor	General The study aims to analyze the citrus value chain and suggest areas of interventions to upgrade the chain. 3. To suralyze the nature and structure of the industry that include value chain mapping, description of key players and their functions, nature of interfirm relationships, market and market opportunities, and price and cost structures; 2. To identify the support services, enabling environment such as formal rules and regulations, tools outland morns and behavior in the industry. 3. To determine constraints and opportunities; and 4.1 or recommend \$81" interventions and policy reforms for addressing pay/constraints.	Value chain map of selected citrus 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 citrus industry in the region	NVSU	Cirus Grovers in Nueva Vicraya and Cagnyan Valley 2. Traders, processors and input providers 3. Researchers/Breeden 4. Nuevery owners/ journal to 5. Agricultural Technicians 6. R&D planners, researchers, policy makes	16-Nov-16	30-Apr-18	ONGOING	2,256,048	1,021,499
Citrus Resources Research for Development in Cagayan Valley (CRR4DCV)	Project 2. Genebank and Database Profile of Citrus Genetic Resources	reduction and empowerment of the poor	General The aim of the project is to conserve and document circus cultivars and available local circus genetic recourses for the purpose of breeding research and utilization in the Philippines genetic recourses for the purpose of breeding research and utilization in the Philippines (Specific L.) To collect, characteris, identify, evaluate and conserve circus genetic resource/germplasm from the complex of the control of control of the control of th	1. A test of thirty-one (21.) citrus species collected and characteriset, of this test, 1.3 accession prospecies collected in newly two (21) perices with 6-15 accessions collected for each of the remaining nine (9) citrus species averaging to 134 accessions; 2. At least three (3) mother trees grown, and maintained/conserved in large earther post for each distinct germplasm for an average of 402 mother trees maintained in the genebant; and a second of 402 mother trees maintained in the genebant; and a second of the collection of	NVSU	Otros Gorees in Nurea Viczus and Cappen Valley J. Traders, processon and input prodest's Reseasteric Fleeders 4. Norsery owners/spectors 5. Agricultural Technicians 6. R&D planners, researchers, policy makers	16-Nov-16	15-Nov-1	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 Stat	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 planting materials production system for citrus in Nuvav Viscrus, Specific. 1. To enhance the foundation/bullwood increase block of NVSU and numeries of the university and MAGIGA, fastion for the production of this band CTV three planting materials, 2. To increase seeding yields the production of the band of the production of planting materials, 5. To train at least 10 nursery operation/sweers and interested individuals on disease free planting materials production, paging prographics the civiliance and effective nursery management, 6. To establish a techno deno farm that will utilize NSU disease free planting materials, and provide established on existing driven ordered on management of pests and diseases and improved production technologies, and 7. To publish at least one IJ article in a referred disease of the production of the production of the production of the production technologies.	1.4. A model system for production of quality planning materials of citrus 2. Improved one (1) foundation and busined concress beloss and two (2) citrus nurser's . Increased seeding production of NV3U (from 3,000)/per to at least 7,000/year) and of the Municipal Agriculture intercept (from 1,001 or at least 2,000/year) (22) oindesed crain seed the seed of the production and part of the control	NVSU	Climus Comers in Nuew Yuczay and Cagana Valley J. Taders, proression and input providers 1. Researching Freeden: 4. Nursery owners/operation 5. Agricultural Technicians 6. R&D planners, researches, policy makes.	16-Nov-16 1	5-Nov-19 ONGOII	7,851,442	1,032,587
Citrus Resources Research for Development in Cagayan Valley (CRR4DCV)	Project 4. Development of Pests and Diseases Management Systems for Sustainable Citrus Production in the Philippines	reduction and empowerment of the poor	General The project aims to develop per and disease management systems for sustainable ctrus production in Capaga-Valley. Socrific 1. To establish current incidence and sevenity of major diseases and population dynamics of vectors and major interest perts. 2. To develop a system for monitoring and forecasting direpressing entire 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 of major insect pests and disease; 4. To verify and modify current practices for control and management strategies for major pests and diseases which can increase yield by 20-30%.	1. Data on current disease providence of leg. 148, CT Ver 4; 2. Propilation dynamics of the skid. Curran pytilis, and la Document with description of local circum disease and insect petal. 40: (I) integrated and systematic paying schedule to control major pests and diseases of circum 5. At least seven?) (Control strategies employing Plan and Dial betroliques 6. At least seven?) (Portion Strategies employing Plan and Dial betroliques 6. At least seven?) (Portification trails or demonstration trials harmersing the best control tactic identified 8. Seven?) (Verification trials or demonstration trials combined with good agricultural management practices as well as IPM and Dial strategies 9.4 states fee(5) organic-based biopesticides 10. Four (4) pilot testing showcasing the most effective organic-based biopesticides	NVSU	Liturs Growers in Nurva Vicros and Cappan Valley 2. Traders, procession and injust products 1. Researcher/Bereders 4. Nursery owners/operators 5. Agricultural Technicians 6. R&D planners, researchers, policy makers	16-Nov-16 1	5-Nov-19 ONGOIf	IG 9,506,255	1,424,240
Citrus Resources Research for Development in Cagayan Valley (CRR4DCV)	Management Strategies for Citrus	Rapid, inclusive and sustained economic growth	The overall goal of the project is to develop and fine-tune sciencebased organic and inorganic fertilization rates for trian, with combined optimum impation rates for the different fruit development stages of bearing circum under howeve Varceya conditions. Specifically, the project aims to a complish the following: a. Determine present oils and impation-related practices in citrus farms; b. Determine optimum inorganic and organic fertilizer rates for finiting critics trees; C. Determine optimum soil moisture condition and drip arrigation application rates at various stages of fruit development; and d. fire trust refersits and dirigitation residentined 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 durium for optimizing or calusily durium throis for domestic and export market, as well as on height and fruiting branches; 2. Increased yield and improvement of other inful quality; 3. Optimizing formation of the durium based on leaf analysis validated and eventile; 4. Gis-sided ustability maps for furties in Dawso and Cotabato Provinces; and 5. Extended harvesting season by two months.	NVSU	Commercial durian growers Zhand scale durian damers Farm Contractors Wholesaler/setalers/eporters Research institutions Researchers Guide Colors Paramers		1-Oct-20 NEW	4,999,322	2,404,273
Coastal Acidification: How it Affects the Marine Environment and Reosurces in the Phillippines	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 spation-emparal variation of carbonate and other environmental parameters in the study stee. 1) To define the spation-emparal variation of carbonate and other environmental parameters in the study stee. 1) The carbonate is the study of the spatial variation of the study acceptance of the spatial variations, principal ends on global variation in the selected sites and examine degree to which changes in organic load and nativer dynamics affect the carbonate parameter. In Map out sewerce plan and angigenic exituation state of Philippine vaters using existing data and from additional sampling in red this in the country. No motions changed and relevant parameters in the experimental selection of Projects. 2 and 3 that are designed to examine the effects of stressors, loadification, extrophization, sedimentation) or marker expansion. and the stress of the stress	Publications 1 19 publications - Primer on coastal/cons acidification for the general public Products - Major pilor Philippine waters - Major of angendes stands for Philippine waters Projet & Services + 3 Graduate student research supported for the prepart (First a) deliverable/recologist 1, Squito temporal variation in cachonate facility of the prepart (First a) deliverable/recologist 1, Squito temporal variation in cachonate for the prepart (First a) deliverable/recologist saturation for Philippines waters 3; Variation in carbonate and other parameters under various stressor, codification, employations, sedimentation) the marine organisms are exposed to 4) Historical information on the relationship between coral growth and changes in environmental conditions in the sites Var 1 delverables/orquics 1) Spatial and temporal (vert and dry, spring and nesp, diurnal) variation in actionate and other parameters [e.g. nutrients, organization) in the sites of the parameters and other parameters are monitored in the experimental study of Projects 2 and 3 Var 2 delverables/orquips 1) Carbonate and other parameters determined in 3 other reed itself in the country 2) Consolate of oral cores or beloated 3 (oras cut, reyeld and extension rates measured; selected cores used for density measurement 4). Selected cores subjected to 383 strange and of and Costope wich 5) Contonate and other parameters are monitored in the experimental value of Projects 2 and 3 stranged of and Costope wich 5) Contonate and other parameters are monotiored in the segmental value of Projects 2 and 3 stranged of and Costope wich 5) Contonate and other parameters are monotiored in the segmental value of Projects 2 and 3 stranged of the parameters are considered in the segmental value of Projects 2 and 3 stranged of the parameters are proposed to 4 (shirt parameters) and the parameters are monoticed in the segmental value of Projects 2 and 3 stranged	UPD	Target beneficiaries are local and national government offices concerned with coal needs and the communities that depend on them. Other beneficiaries are resource planners, local state of them. Other beneficiaries are resource planners, local state of them. Other beneficiaries are resource planners, local state of them. Other beneficiaries are considerated on nontributing and other relevant parameters.	15-Nov-17 1	4-Nov-20 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 chemistry on the marine food web at various trophic levels. Specifically, this project aims to: 1. Determine the effects of ocean chemistry latin on the biomas and structure of the base of the food web (phylippiateda) and intermediate consumers (popiateda); with project and intermediate consumers (popiateda); 8. Develop methods for rapid sassessments of marine trophic levels and food web dynamics to by findinger; and 9. Develop methods for rapid sassessments of marine trophic levels through molecular biotechnology, and imaging and optical approaches.	Expected Outputs (By 6 Ps) Publications * 1 IS publications People & Services * Formal Trailing B 3 Graduates student research supported * Informal Training B 1.5 duethers trained in molecular tools for tooling at planton B 3 Sudents Trained in the fields of one and distriction and patient research, and measurem repersions of the fields of the additionation of patients research, and measurem repersions and the properties of the properties with a the Publicage with a pit gradient of primary and secondary production due to a calification and other stressors and their implications for information and other stressors and their implications and other stressors and their implications for information and other stressors and their implications and other stressors and their implications for information and other stressors and their implication and other stressors and their implication and other stressors and their implications and their implications of field samples. 3 Acquaints on the present analysis results from higher trophic levels from the part guidents in a tell season of their analysis results from higher trophic levels from the part guidents in a tell section of the party in higher trophic levels from the party suddent and their stressors of the stressors of the party and secondary producers across the party families of the finite stressors on primary producers to higher trophic levels and implications for the finite secondary producers to higher trophic levels and implications for the finite secondary producers to higher trophic levels and implica	UPD	Fibheries managers, Resource planners, local and global scentists	15-Nov-17 1	4-Nov-20 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 Acidfication: How it Affects the Marine Environment and Reosurces in the Philippines	Project 3: Possible influence of acidification on specific ree resources	f Integrity of the environment and climate change adaptation and mitigation	The objectives of this project are to 1. Determine the response of coral reef-associated calcium carbonate producing macrolage to decreased pil and associated stressors. Community composition in relation to environmental parameters. b Phylosological effects of specific stressors on selected macrolagee. 2. Determine response of coral reef-associated bodilino morniumlists to decreased pil and associated stressors. a Effect of environment on bodilin community composition. b . Effect of marine bodilin community on settlement of diarvee of selected collecting organisms (e.g. sear utriving, proposition, and associated stressors. a Effect of environment of various of selected collecting control environments on giant claim growth and physiology. A Effect of variable environments on giant claim growth and physiology is experient of the environment of the environments of the environment of the environme		UPD	Conservation Diologists, Fabries resource managers, finirecommentalists, Ecologists, Ecotoricologists	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 future impacts of ocean acidification on coral communities at a wider scale (based on various communities) and offered along with the other components of this proposed research program) and flishy consequences of these impacts on local communities.	Publications *1 151 publication Products * 1 simulation model with several scenarios People & Services * Formal Training 13 graduate research supported 2.25, possibly two MS, one Productive Services * Formal Training 13 and southern several publication and the Services People & Services * Formal Training 13 graduate research supported 2.25, possibly two MS, one Productive Services *	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 Admistrative 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 a 8. 4b; Establish variations and heritability of economically important traits; and Test selection and breeding methods for breed development. Development of the production model. 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	Deedop particula and profitable native pig range management protocols Develop sustainable free range production models for small naral 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 Visayas	Project 1. Native Pig Breeding And Production As Sustainable Livelihood Option in Calamity Prone Areas	Poverty reduction and empowerment of the poor and vulnerable	Document and analyse the ghemotypic (incorphological and production performance) and genetic characteristics of nather gips in fastern Westpace. Determine the extent of variability and heritability of production traits affecting growth, reproduction and carciass quality of rather gips in Samar and neighboring provinces. Develop selection methods and treeding strategies that are suited to native pigs in the area and lead towards stating the thereding 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 slugghter native pig production system.	B. Breeding true to type genetic group of native pigs in region B. 2. At least 3 scientific papers on phenospic/genetic characteristics and unique high value traits, correlation between genetic characteristics and desirable phenotypic traits, utility of molecular markers on growth reproduction, resistance to disease, adaptation to environment and meat quality attributes. 3. Native pig populations (50 soos and 30 boars) with improved growth and reproductive performance and meet quality. 4. Rereding and scleent technology on native pig breed development and production performance improvement	ESSU	Researcher, professor, students and swine breeding practitioners Native gip (armers) Astate gip (armers) Astate gip (armers) Astate pip (armers)	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 Nature Pigs	Rapid, inclusive and sustained economic growth	Develop a practical and cost efficient native pig range management, feeding and health care protocols and systems suited to the resources available in rural farming communities and to the capacity and capability of rural farmers in Eastern Visuyes. Develop a ringer are inhancement protocols for free range native pigs that are anchored on: —indigenous technologies in the region. —optimum stocking lets of free range nonther pigs in the target regions, and —seasonal variations of the availability of naturally occurring feed materials for rather pigs in the target regions. Develop free range native pig production modules suited to farm conditions in the target regions.	1.800 slaughter native pigs. 2. A least all scientified documents on free range native pig production and management, native pig range enhancement protocol, illnerstory of roughquage and other natural feeds for free ranged native pigs, growing reformance and caracture, suglier of parties pigs ratios on ranges. 3. Ration formulation technology for free range native pigs. 4. Free range native pig production technology	ESSU	1. Notive grandsch processon 2. Native grandsch processon 3. Native grandsch 3. Native grandsch 3. Native grandsch 3. Native grandsch 3. Stadems, professors and other stateholders of Philippine native pgs	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 poline of rative pig railors, totalen, processors and 5 conjumes of rative pig collects in Swarm and engisheding proforces. Generate information on marketing drastices and prifiting systems of rative pigs in the area that would be useful in improving the marketing efficiency of native pig products. SE Polaties her supply, demand, and marketing flow of railor pig production in Statent Wayaya Services and assess current local government profiles relevant to native pig production. The statent Wayaya Services and advocative strategies that are supported or native pig provement and profiles utilization initiatives in Eastern Visayas. E Determine the socio-economic contribution of native pig production in fastern Visayas.	Information on channels and intermediaries involved in the marketing of native pigs and their products in Eastern Visayas.	ESSU	R.B.O glavener, researcher, professor and students 2. Contravenerum regular marker jeji production 3. Nather pig traders 4. Nather pig 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 1. Ensuring Food Safety and Quality Along the Supply Chain Through Product Traceability: An ICT-Based Pork Traceability System Model	Rapid, inclusive and sustained economic growth	To ensure safety and quality of Jon, a system for tracking meet products using information and Communication Februologies (CIV) will be developed utilizing the RPIO technology and QR code, and interfinited network of computer and database.	Traceability and identification system established from farm to market - Use-case diagram and ERD of a compute system for tracking naminals at the farm - A computer and RFID system for submarkacilly tracking animals at the farm, with ordine, remote and writers into rypromiting system and the farm, with ordine, - A computer system for submarked inventory of animals while in transist - A Computer system for transfering maintain and farm specific information to meat parts via a QR - code tagging system and stracking of meter products for the marketers - A prosocol for GR Cored based quality sampling system for the PMIS - National Disablese for tagging and tracking system and mean products.	UPLB	Direct beneficiary at the Program as I least 2 organized waves farm join model farm feworth 2 government regulation agencies indirect beneficiary; at least 2 meat processor and traders	01-Apr-14	30-Sep-17	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 issue in false building by developing a technology for species identification in the stand and many products. The methods of species identification will be developed, one utilizing the technology of Polymerase Chain Reaction (PCR) and a Loop-mediated suchemial Angilification (LAMP) method.	Molecular based (PCR and LAMP) technology/protocols for verification of meat and meat products Primer sets and barcode region sequences for at least 4 species. A baseline data of their behing of mean products in Los Balco, Laguna which may serve as an input for legislation of policy related to food safety in the Philippines.	UPLB	NMIS Various stakeholders of newly slaughtered pork like 15 slaughterhouse owners and 12 meat dealers	01-Apr-14	31-Mar-17	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. Special: To establish the disease profile in fresh and processing tomato production; To establish the disease profile in fresh and processing tomato production; To establish the disease profile in fresh and processing tomato production; To establish the disease profile in fresh and processing tomato production; To establish the disease profile in fresh and processing tomato production; To establish the disease profile in fresh and processing tomato production; To establish the disease profile in fresh and processing tomato production.	3.At least two [2] publications in ISI-indexed journal 2.Desizes profile in fresh and processing tomato production 2.Desizes profile in fresh and processing tomato production 2.Desizes profile in Security (Configuration of the Configuration	UPLB, NFC	Researchers will benefit from the generated scientific information about integrated cup management for fresh and protessing sometimes production using adaptable 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	In denders on improved integrated crop management for frosh and processing tomate production using efficitive and sits appectification part and work analysement technologies. 1. To characterize the succession of insect pest in a given production system under a specific crop growing. 1. To characterize the succession of insect pest in a given production system under a specific crop growing with insect pest occurrence; 2. To capacitate fements and promote adoption of village level production of biological control agents in other farms; 3. To determine the efficacy of modified release strategy of biological control agents and carragement stechnology for insect pest management in fresh and processing tomate production. 2. To determine the efficacy of modified release strategy of biological control agents and carragement stechnology for insect pest management in fresh and processing tomately productions. 5. To formulate ICM recommendations for future field validation and application using effective and adaptable diseases, intest pest, insect pest, weed and nutrient management technologies for fresh and processing tomately production.	Site-specific insect pest succession pattern under a given crop proving environment (climatic and edspitic factors) and pest management (biological, cultural, behavioral and chemical control) in fresh and processing formatio production. 2.Efficacy of modified release strategy of biological control agents and carragement technology to manage invect pests of fresh and processing formation production. 3.Find validated CM recommendation. 3.Find validated CM recommendation. 3.Fall validated CM recommendation is single production and recommendation pattern and emerging insect pests, training materials on village level mass production and training trainin	UPLB	Assections and students will benefit from the generated scientific information about the site specific succession pattern of limits per star and belongist or north based one protection technologies for than had processing formats. Tomatic growers and government extension agencies (DA-RECK, 3003), will benefit from technologies, recommendations, and trainings on mass production of biological control agents.	01-Nov-17	31-Oct-20	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 site specific nutrient management program for fresh and processing tomato production in focos forms and fiscos size (specifically (1)) to characters cold reliably study, former's matrient and water management practices and yields in selected tomato farms; (2) To formulate site-specific nutrient management program for forms doubtains based on on-farm trials; and (3) To formulate iCM recommendation that incorporates site-specific nutrient management and effective and adaptable disease, insect pexi, and weed management technology and validate its field application.	Vear 1 ***Networking and coordination with NFC, LGUs, MMSU and farmers in the selected sites **Baseline profiling of farmers nutrient and soil management practices/production systems **Northling, collection and biostatory snalphios of old management **Consolidated baseline data for use in the formulation of SSMM **Selvey MOST and OFF in selected farmers; Reides **Situated soil antices supplying capable; **Situated soil antices supplying capable; **Celestimated soil management **Post-instanced soil management **Versity Off exposurements and termination and disease, insect pest and used management **Versity Off exposurements in farmers' Reide **Versity Off exposurements in farmers' Reide **Versity Off exposurement in farmers' Reide **Versity Off exposurements in farmers' Reide **Versity Off exposurement in the imagement on management startegy **Versity off exposurement in the imagement on proposes to the recommendation **Versity Off exposurements in farmers' Reide **Versity Off exposurement in the imagement on proposes to the recommendation **Situated various nutrient use efficiency parameters **Versity Off exposurements of the imagement startegy **Versity Office of the imagement of the proposes of the i	UPLB	Not which is the only processing company for formation in the country will benefit from this technology as well as their farmer cooperators. Researchers will benefit from the generated scientific information and distasts that are basic inputs in the development of alterprecing configuration and distasts that are basic inputs in the development or alterprecing configuration and control to the proposition furnishment assignment program for furnish in selected towards growing areas/domains in the Philippines.		31-Oct-20		4,074,592	1,401,341
Oevelopment of Robust Tools for Managing Sardine Fisheries in the Philippines: Zamboanga Upwelling-Bohc Sea System	,	Rapid, inclusive and sustained economic growth	Sodines are important food this for the filipinos and its filherine a significant source of employment to food this for the filipinos and its filherine a significant source of employment to flowcoands of filipse and actiony owners. However, and filipino filipinos in general are beset with critical issues such as overfishing and excessive filipinos greasure, deficient management strategies and habitate deposition of successive in commercially valuable in blocks such as surfaces in important. This feromology would provide valuable internation for country are associated with high phytopations productivity and this necessitate the need to determine eachly what sardness consume. The decline of phytoplankton growth due to climate change would certainly have serious effect on the diet of sardness and consequently to sardness fishery.	targeted site 3. DNA sequence 4. Morphological identification of stomach content	UPD	Gammeraid Fisheries Sector, Casatal Communities, Philippine Researchers		31-Dec-17		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 pool of champions and empower communities on disaster risk reduction and climate change mitigation and adaptation; 2. To improve resiliency of vegetable farms against advers impacts of climate change 3. To develop IEC materials on disaster preparedness	Peoduct: 2 structural wirdbreak; 1 training module People and Smrice; 2 fammer leaders and TQLI officials/emplyees trained as DRR pool of champions; 56 fammer cooperation trained; 2 women's group capacitated Publication: 3 (Entertains); 2 popular article; 1 video cilg Places and Partnerships: 2 MQA forged DRR/CCAM sustainability Policy; 1 Policy recommendation on DRR/CCA for agriculture (barangay & municipal Level)	Abra State Institute of Science and Technology (ASIST)	1GUs and Abra farmers	01-Oct-17	30-Sep-19	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 Shructural Windbreak; 2 Simple Orip Irrigation; 2 rain water harvesting tanks; 85U crop shelter; 1 training module People and Service: -2 Samme leaders and 7 LGU officials/promplyers trained as DRR pool of champions, 56 femor coopentants trained; -2 women's group popular dephalication: 18 CE materials; -2 popular articles; -1 video dig: Publication: 18 CE materials; -2 popular articles; -1 video dig: Publication: 18 CE materials; -2 popular articles; -1 video dig: Publication: 18 CE materials; -2 popular articles; -1 video dig: Publication: 18 CE materials; -2 popular articles; -1 video dig: Publication: 18 CE materials; -2 popular articles; -1 video dig: -1 -1 vid	Apayao State College (ASC)	Fammers and LGUh	01-Oct-17	30-Sep-1	9 NEW	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 &T interventions on 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	Product: a Interfekent reinforced forms; 2 structural winderbresks; 2 tunnels type rain sheltens; 2 training modules. People and Services: 2 farmer leaders and 7 LGU officials/employees trained as DRR pool of champlons; 56 former cooperations trained, 2 women's group capacitated Publication: 3 EC materials; 2 popular 2 youngers; 2 popular 2 youngers; 3 EC materials; 2 popular 2 youngers; 3 EC materials; 2 popular 3 youngers; 3 EC materials; 2 popular 4 youngers; 3 EC materials; 3 popular 5 youngers; 5 young	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 introduces \$KT intervention on mitigation and adaptation measures at the farm level and increase the capacity of farmers and communities in the provinces of lifugao to mitigate the adverse impacts of climate change	Product: 2 ain water harvesting tanks; 2 training modules. Propio and Service; 2 farmer leaders and 15 füll officials/employees trained as DRB pool of champions; 56 farmer cooperators trained; 2 women's group capacitated publications; 15 farmer leaders and 15 f	IFSU	LGUs and farmers	01-Oct-17	30-Sep-1	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 on miligation and adaptation measures at the farm level and increase the capacity of farmers and communities in the provinces of Ifugao	Product: Znjuvinsted coffee plantations; 2 rain water harvesting tanks; 1 training module Propile and Service; 2 farmer leaders and 1 (Usel ficials employers trained as DRR pool of champions; 56 farmer cooperators trained; 2 women's group capacitated publication; 15fc meleniké, 2 popular articles; 4 video of gli production; 15fc meleniké, 2 popular articles; 4 video of gli production; 15fc meleniké, 2 popular articles; 4 video of gli production; 15fc meleniké, 2 popular articles; 4 video of gli production; 15fc meleniké, 2 popular articles; 4 video of gli policy; 1 Polloy recommendation on DRR/CCA for agriculture (barangay municipal Level)	ksu	Colfee farmers	01-Oct-17	30-Sep-1	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 S&T interventions on mitigation and adaptation measures at the farm level and increase the capacity of farmers and communities in Mt. Province	Product: Z ain water harvesting transit: Z turned type cop shefters; Z training modules People and Smirce; 2 famme leaders and I/CU clinical/implements stand as DRR pool of champions; 56 farmer cooperators trained; 2 women's group trained Publication; 31 (En orderinic); 2 popular articles; 1 video (Ip) Places and Partnership; 2 MGA troged DRV/CCAM sustainability Policy; 1 Policy recommendation on DRV/CCA for agriculture (barangay & municipal Level)	MPSPC	Farmers, LGUs	01-Oct-17	30-Sep-1) NEW	7,097,847	3,784,085
Disease Management for Improved Mud Crab Production	Prevention and Mitigation of Diseases in Mud crab Culture	e Rapid, inclusive and sustained economic growth	1) To develop and optimine quantitative PCR techniques to detect WSSP; 2) To develop and optimine PCR protocol to detect. VSSV in water and soil; 3) To determine other predipposing environmental factors for valvous and WSSV infection and WSSV infection sales from home identified in previous project i.e. low temperature and presence of WSSV infected shrimp 4) To recommend effective intervention strategies against vibriosis and WSSV.	Distincted quantitative PCR techniques to detect WSD/: 2. PCR pentoon to detect WSD/ in the water and soil: The Post pentoon to detect WSD/ in the water and soil: The Post pentoon to detect WSD/ in the water/poil that may result in infection and montality outbreak; Chromometral factors that affects disease occurrence/outbreak; S. Management scheme to prevent infection and mitigate the effect of infection in hatcheries and grow out ponds and addition to those leefficies in a previous study;	SEAFDEC	Must cab hatchery owners and growers in the implementation of propor management strategies for ingher survival and production; Troughnostic laboratories for the PCR protocol on the detection of WSDV in the water and soil	01-Sep-15	28-Feb-1	ONGOING	4,440,281	713,962
DOST-PCAARRO Technology Business Incubation (TBI) Program	DOST-PCAARRO-BSU Agriculture and Food Technology Business Incubator	Rapid, inclusive and sustained economic growth	Component 1. General Objectives: To encourage, support and nutrue the development of mature agri aqua-based technologies into viable agributiness commercial ventures for the creation of wealth, employment and economic development. Specific objectives: Specific o	Abbitations: 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 Replaces and the staff per years, At least 1 2 Paterial People of the Staff per years, At least 1 2 Paterial People of the Staff per years, At least 2 2 Paterial People of the Staff per years, At least 2 2 Paterial People of the Staff people of th	BSU	Component 1. MOMELS, spin offs and start-upo in AANR enterprises; AFNR Graduate, Cooperative. Component 2. Smallholder farmens and food processing enterprisesurs, students	01-Oct-17	30-Sep-1	NEW	10,113,468	4,881,221
DOST-PCARRID 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 CISI-AFTBI operation. Specific. The goal will be realized through the following specific objectives: 1. Assist enterpresent-cents to commercialize agriculture and book-based products and produce two (2) graduate incolates in the next 2 years; 2. Assist AFRIS testions, Gircialases, and Technology generation to start their MSMEs; 3. Enrich the cipability of the employees and strengthen the worldorce; and 4. Establish CISI-AFTBI product showroom for incubatees.	Products: Tabaja - Imperfine, drind, smoked, canned Goat - Upgraded goat, canned, ready to eat Multimod - Techs, tided, picked, white energy drink, capsule Mango - production, pickled, drinde, pure, wine, juice Gonnon - Resh (pragnic, picked, drine, pout, pickled, drine, pure) Vigetables - fresh (organic), vacuum packed, canned, bottled, pickled Rece - aromatic rec, progain rice, rice hypothost Dairy Carabao - processed mit groducts Dairy Carabao - processed mit groducts Roogle and Smokes; No. of Inchatters arcepted as start up 9 No. of Inchatters arcepted ministered 9 No. of Inchatters graduated 9 Partnership: (Signed MOA) No. of Government Agencies 18 No. Private Agencies/Financial Institutions 4 Places: Number of communities involved in incubation 8	cisu	AFAN Graduates, MSMEs	01-Oct-17	30-Sep-1	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-PCAARRO-CvSU Agriculture and Food Technology Business Incubator	Rapid, inclusive and sustained economic growth	Abusiness incubator's main edipetive is 10 produce successful individuals that leve the program financially visited inferestanting, incubatory graduates commercials technologies, create jobps, and strengthen local economies. It helps to stimulate economic development benefits for the province in terms of jobs and tax revenues by producing successful enterpreneurs bringship equiping them with the messary howledge, attitude and stills on entrepreneurship, production, processing, marketing, resource generation and bosiness analysis of various agricultural set of lettery commodities. Specific objectives are 2. To identify potential incubates to undergot the program 2. To train these notables and produces support and services used 3. To produce successful incubator graduates contributing to the economy through employment and revenues.	A lotal of 10 modates every year from the 3 components Four (4) graduates by end of Year 2	cvsu	Entrepreneurs in agri-squa 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 is to establish a Technology Business incubation (TBI) facility intended for the promotion of broadedge leaved heretake production and poss-production activities, technology and the project of t	Publications - At beat 3 curriculum of the officed course finalized (1) 2, Patrict - 3, Products: - 4 Project 5 Services - At least 3 formalized rainings on Josephs includation officer (1) - At least 10-5 courseline with 1 Services 1 Servic	ISU d t	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	cover a Objective. To faster a culture of innovation and entrepresental ecosystem by proxiding a tense of ynamic interestions among the acidemic, industry and the private sector to develop technology based enterprises. 1. To maximize and advance the potential technologies and innovations generated by the faculty. 1. To maximize and advance the operated inchnologies and innovations generated by the faculty, or start-up development. 2. To promote the creation of new technology business startups and graduates from TRIB. 3. To provide an innovation enterpreneural ecosystem through business creations capability business practices and or the creation of new technology business startups and graduates capability business practices an innovation enterpreneural ecosystem through business creations capability business practices and overall approximation of the control of t	c) Business Incubation Capability Building d) Innovation and Entrepreneurial Ecosystem Promotion e) FTBI Team, Industry and Funding Partnership Formation f) FTBI Facility Development	UPV	UPV Community (GU Milagos - Foherfals, and the community Province of ficilo 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, seasothers, growers processor and enterpreneurab Region VIII. *To enhance business and employment exportunities of AANR graduates through commercialization of approximum and foot betwooders was ATR students of AANR students through commercialization of approximum and foot betwooders was ATR students. *To accelerate commercialization of AANR technologies developed by the university and other R&D leastfulctions in the region	Product. At Issast 7 Technology-based commercial products and businesses. Forgole and Sorvice 4 to Mars 7 New corresponders 1 Prod of 18 managers (administrators Publication. At least 1 Publication on experiences of PSU in technology commercialization thru 18 Places and Partnerships: Partnerships with the chambers of commercia/industry, At least 7 MOAs with incubates.	VSU	Southers in agriculture, foresty and natural resources -00% Streets, processors, individual or groups interested to worker into ANN 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 Anthracnos 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	1. Identified 3 potential "Carabao" mango strains/selections with red blush and 1 with thick peel form other mango varieties are mango varieties. Program of the program o	UPLB	Manga growen/seporters Researches Breedles	01-Nov-15	30-Oct-21	ONGOING	15,949,890	1,812,119
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 resistance to anthracrose and fruit fly	1. Identified 3 'Carabas' and 3 other mango variety resistant to first fly 2. Identified 3 'Carabas' and 2 other mango varieties resistant to arithracrosse 3. Published at least 6 papers in identific journals	UPLB	Mango groven/issporters Nearonthes Therecities	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 markens associated with specific traits in mangoes through the application of Genotype by Sequencing technology	Lidertificht muthers associated with specific traits Lidertificht trait hybrids Lidertificht trait for mange Lidertificht trait for mange Lidertific	UPLB	Magagroven/seporters Researches Bereckes	01-Nov-15	30-Oct-18	ONGOING	14,498,868	1,457,420
Enhancing Livelihood Opportunities in Conflict- Vulnerable Areas in Mindama 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 recome of select farmers in Barangay Canahay, Suraliah, South Cotsbato through the UEF Model. Sepecifically, the project just so L. Improve farmers' productivity and income by using sustainable and appropriate farming, post-production and marketing practices; 2. Strengthen farmer groups and promote general regular post-production and marketing practices; 2. Strengthen farmer groups and promote general regular post-production and marketing practices; 2. Strengthen farmer groups and promote general regular seasons and productive productive productive groups and promote productive productive productive groups. 4. Document and analysis the adoption, productivity and welfare improvement of farmers in these conflict-violenable communities that use the LIFE model.	Staces and Portnerships: MOLANOU with Beig Carolina, Suralish to implement the LIFE model. Expanded networks of farmer Beig Carolina, Socialish to implement the LIFE model. Expanded networks of farmer Beig Carolina, competitions of the new facilitation of Organized site least 30 flarmer competation since declarate conductated at least one cross visit and non- terior capacity building activity for cooperations in improved access of farmer groups to government programs thru Barrany, Municipal(FI) (EQ. s. seed las appends such as FAC, Du, OTI and DOST or Established at least one learning area, Registered the farmercooperation group with DOLE or Conducted at least 20 after capacity building activates for cooperation, One field DVP Products: Interested farmers' income by 30% (based on results of the beaster), One field DVP Products: Interested standediest consultations with cooperation for policy development, Ordinance Publications: Consultation of the Competition of the Competition of the DIF Model, At least 2 papers published that are peer reviewed o Training module published o Terminal report	UPM	The target beneficiates of the project include extention service provides, local growment units, farmer partners, policy malters and even the 880 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	Cost	2017 PCAARRD GIA
Enhancing Uvelihood Optorunities in Conflict- Vulnerable Arras in Mindanoa through the UFE (Livelihood Improvement through Facilitated Extension) Model	Project 2. Scaling Out the UFF 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 productivity and income of select farmers in Datu Abdullah Singki, Maguindanao through the UTA Mode. UTA Mode. To improve productivity and income of select farmers in Datu Abdullah Singki, Maguindanao through the UTA Mode. The productivity and income by using sustainable and secondarial selection of the productivity and income by using sustainable and secondarial selection of the productivity and income by using sustainable and secondarial selection of the productivity and income by using sustainable and secondarial selection of the secondaria selection of the secondaria selection of the secondarial selection of the secondaria selec	Places and Partnerships: MOLANOU with one barrangey of DAS, Maguindanus to implement the USF model, Expanded network of farmer corporation of Barrangey and DAS, Maguindanus coperations and at least one other government of the proper day of the property	UPM	The target beneficiaries of the project include extension service provides, local genement with, famer partners, policy makes and even the #&D community.	16-Oct-17	15-Oct-2i	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, Zamboanga Sibugay To improve productivity and income of select seaweed growers/farmers in Ipil, Zamboanga Sibugay Socicifably, the project Socicifably Socicifably Socicifably Socicifably Socicifably Socicifably Socicifably Society Socicifably Society Socicifably Society Socicifably Society Socicifably Society Socicifably Socicifa	Expanded networks of farmer cooperators of [spl. Zambonaga Sibuga y Prople and Smirce Conducted capacity building methoding for rower facilitators o Organized at least 30 Immercooperators into one charter/association Conducted at least to organized at least 30 Immercooperators into one charter/association Conducted at least one cross visit and one other capacity building activity for comparents on improved across of farmer groups to government programs thru librarage, Municipal/City (Luf.); as well as agencies such as BRAR, PCA, DI, Il and DOST of Established at least one bensing sea, Registered the farmerooperators group with DUEs of Conducted at least 2-3 other capacity building activities for cooperators, Ore Feed Day. Products: continued and across consistency of the capacity of the Seast Conducted and Conducted	UPM	The target beneficiaries of the project include extension service provides, local government units, famor partners, policy makes and even the R&D community.		15-Oct-21		7,008,952	2,174,884
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project 1. Development of Feeding Protocols and Practice to Support the Nutritional Requirements of Dairy Buffaloe		\$\text{To assess the existing feed resources, current feeding practices, identify ruinfirthout agas and production performance of the dainy buffallows raised by the finemes at the national impact cone (BIV), in levea Coja and in Sna Agastho, labello \$\tilde{T}\$ or stabilith vallage-scale sustainable production of grasses and legames for injury forther feeding in 5 certainty legames (and practical feeding system using home-grown Grages that it nutritionally complete to increase daily milk production of buffalos from 4.5 to 7 kg \$\tilde{T}\$ or recruit at least it of cold vall rearness in shill adoptes of the feeding technologies and system developed by the product \$\tilde{T}\$ assess reproductive performance and milk production of dairy buffalos; and profitability achieved by participating dairy buffalos farmers	At the end of project implementation, the following expected outcomes would have been realized at the NIZ, haves follow and san Against, lade of the first product of the first product on the problem of liverfluke intensive and the product of the first produ	PCC	8.52 primary cooperatives in Navas Edja with more than 1,000 members mostly composed of mailholder ally buffelio farmers. 8 One (1) cooperative in San Agustin, Labella with at least 200 farmers zaising crossberd buffalos.	01-Jan-16	31-Dec-1:	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	3 To gain a deeper understanding on the overlan physiology of dairy buffalces during estrous cycle 3 To educidate overlan foliacidate covarian foliacidate covarian foliacidate covarian foliacidate covarian foliacidate covarian foliacidate spaid de trechnicidans and famens in determining report limit of a fest sus and timing outdation as guide for technicians and famens in determining report limit of x1 in dairy furtificates to improve conjection read and consequently call drop, 1 To evaluate a reexproduce of year consequently call drop, 1 To evaluate a report of x1 in a disposition and fixed time in (FIAI), as an assisted reproduction to the forester efficiency of X1 in dairy buffalces, 3 To impriment effective pregnancy disposition and retirevelling systems appared to the similar deproduction and production of production production and production and the X1 and San Aquatin dairy community that is based on the reproductive physiology dynamics of dairy furtilistics raised in these areas.	E Basic information on reproductive physiology/ovarian function in dairy buffalos in the Philippine's information on ovarian follocular and hormonal response associated with behavioral entre and ovalidation for firmed plr program indice buffalor Baylands and efficient Affortooto with success rates of 30% shall shall be 30% and 10% to 20% in the 20m data requires in respectively? Effective early prepared suggests and or be entire program established particularly for pure bed dairy furnishes it Reduction of calving interest from 2 comits to 15 months 50 solitanished mill production based on the associated time AI program 18 Research publications 24 MS-50% increase in the number of calvins produced 3 50% increase in the number of dairy cover on the milliang line 150% increase in milk production (25% contribution of the Project) 3 AT least 50% increase income for farmers.	PCC	B.Animah science professionals, professors, students 18 20 Painly farmers: B.Daily cooperatives: B.Multiplier farms: 8 VBAIT technicians: B.LGU technician	01-Jan-16	31-Dec-1:	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	3.To establish epidemiological data (temporal and spatial data) for risk factor analysis including dismification of predisposing causes affecting discrete milk production 3.To develop technologies and effective flam management practices to reduce the incidence and encounties inspace of these discuses in any surface. Any surfaces are also also also also also also also also	8 Reduced incidence of fasciolosis, hypanosomiasis and mastitis in water buffalosis 8 Increased milk production through practice of the economiencide management programs for farmers 1 increased income of interest refrom unfail in practication 6 Enterinded capability of local increased income of interest refrom unfail in practication 6 Enterinded capability of local statements of the common of the comm	PCC	B Animal Breeders of private and government farms B Academe/Researchers 25 Breeders Breezer	01-Jan-16	31-Dec-1	ONGOING	10,695,839	3,559,009
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project 4. Milk Quality and Safety Assurance from Farm to Milk Processing Plant	Rapid, inclusive and sustained economic growth	To assess correstrodisction and handling practices in relation to quality and safety of milk produced by analysis of safety of milk produced by analysis of safety of milk produced by safety and produced by safety of milk produced by safety of saf	Baseline information on existing milk teaching practices and farm level milk equality. If a farm in milk quality is step in occord at Milk quality information as in part on line quality standards for buffall on milk: Improved milk quality (as revealed by milk test results) compared to that at the start of the project, or, number or it samples with reduced microbial count, reduced acidity, increased specific gravity, etc.)	PCC	TAIL key accors in the value chain will benefit from the project. Direct bereikanes include the a sailhold in this produces, dairy cooperatives, federicon, successions, in a considerative properties of the considerative properties of the considerative processors and daily centred staff at the Milk collection Center, in the processors and daily paint managers. If Extension workers, and those in the academic and researcher can be indirect beneficiaries of the project.	01-Jan-16	31-Dec-1	ONGOING	17,222,390	1,949,959
Enhancing Milk Production of Water Buffaloes through S&T Inverventions	Project 5. Strengthening San Agustin Crossbred Carabao- based Enterprise Development (CBED) Model	Rapid, inclusive and sustained economic growth	To equitate the effectioness of circince-based technology captions in feeding, disease control, milk conduction and handlings and dary form management in strengthening the sin Agustin than Coperative SADACOJ and in revealizing the 13 organized groups of San Agustin who are engaged in enterprise based on milk production from crostored and nether containes. The Develop a procified lystem for providing technical support services that would lead to the establishment of an 860 hb treedable female cross-the CELS of which in the milk ling in the 13 crossinged groups by the end of 2018. The Develop enabling strategies and mechanisms for SADACO and appropriate partner/westors to operate the existing processing ficility at 860 and 2018 library services and mechanisms for SADACO and appropriate partner/westors to operate the existing products to wider markets and or enter into marketing agreements with established milk marketing and distribution to business or groups. Selecters clonce based-information that would be used as inputs to a recolution seeking inclusion of an amincipal dairy development program in the Secretive Legislative Agents (ELI) disan agustin LGO.	Información on the success diferen and innovation on the CRED model in Sin Agastin's Neval technology transfer option for the adjourn of breeding, feeding of management, handle and milk handling, transport, processing and pricing and marketing practices and systems by dairy bufful Serimen 19 Ford (October of Microbian) options of practices of the systems by dairy sascisations revellated and actively regoged in the dairy supply chain – production, collection, processing and martinele with SADADO profirming the photoal role il inventory of Processidale healthy female crossbreds reached a total of S68/beach by the end of 2018 (an increase of 15% from project startup to completion period) and 12% of breedable makes in the milling line by 2018 8 (oss) milk production of 10,120 litters by the lest quarter of 2016, 76,650 litters in 2017 and 10,950 litters are milk by 2018. To dairy som tillip production of 10,120 litters by the lest quarter of 2016, 76,650 litters in 2017 and 10,950 litters are milk by 2018. To dairy som tillip production of 10,120 litters by the lest quarter of 2016, 76,650 litters in 2017 and 10,950 litters are milk by 2018. To dairy som tillip production of 10,120 litters by the lest quarter of 2016, 76,650 litters in 2017 and 10,950 litters are milk by 2018. To dairy som tillip production of 10,120 litters when the production of 10,120 litters by the lest quarter of 2016, 76,650 litters in 2017 and 10,950 litters are milk production of 10,120 litters when the production of 10,120 litters when the production of 10,120 litters by the second of 10,120 litters when the production of 10,120 litters by the second of 10,120 litters when the production of 10,120 litters by the second of 10,120 litters when the production of 10,120 litters by the second of 10,120 litters when the production of 10,120 litters by the second of 10,120 litters when the production of 10,120 litters by the second of 10,120 litters when the production of 10,120 litters by the second of 10,120 litters when th	РСС	500 carabas CR owners that own initially the 750 breedable female Obs	01-Jan-16	31-Dec-1	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 cuttivars.	Nutrient profile of new QPM 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-1	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	Cost	2017 PCAARRD GIA
ENHANCING SEA CUCUMBER PRODUCTION: UNCOVERING AND UTILIZING GENETIC RESOURCES FOR SUSTAINABLE DEVELOPMENT	Project 1. Developing Genomic Resources for Holothuria scabra in Support of Broodstock Selection and Stock Delineation	Rapid, inclusive and sustained economic growth	The development of genomic resources for the sandfish is required to further efforts towards increasing hatchery production by broadtoick improvement and genetic stock defineation for management and conservation of laid populations and stock enhancement initiatives. The general objective of the project is to develop general recourse for holdwish scalars which we useful towards enhancement of hatchery production and stock delineation for management of capture fisheries.	 Draft Inkage map for Holdrium's scalms based on SNP markers. 2. Genomic resource for phenotypes selection based on growth: 599 markers 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	31-Jul-18	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 cucumber species, Holothuria scabra and Stichopus horrens		The general objective of the project to identify acologically meaningful management units for two high- under sea countering projects. Holdmirs stand addictional horizons, by integrating information on species biology with biophysical connectivity studies, and flourising on selected areas across the Philippies archipolage where sea counterbe hardners are thereig developed. The specific objectives are: [13 business archipolage where sea counterbe hardners are thereign developed. The specific objectives are: [13 business are considered to the specific objectives are [13 business are considered to the specific objective and [2] lefter managements units for Holdmirs scalars and Sichopus horrers in selected marine biogeographic regions anchored on focal hatcheries.	1. Characterisation of cryptic deventy in Sichropus horrors based on reproductive behavior, genetic differentiation, and themist policy and its implications to identifying management units in the species. 2. Novel molecular markers for stock defineation in Notiothan's schars and Schropus horrest. 3. Identify each general policy and schropus horrest. 3 in testing school policy and schropus horrest. 3 in the schropus horrest is discribed and schropus horrest with schropus horrest schropus horr	ОРО	Sukerviders in sunfils hindary (government and growte isctor); IGUs, fishers, traders and other direct users of natural (wild) sea cocumber; local researchers from academe	01-Aug-15	31-Jul-18	ONGOING	18,300,000	5,437,273
Enhancing the PCAARRO 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 PEAARD programs, projects and other lie-up-in through closer partnerships and collocations with each the DOST Regional Gibbs caross the nation Specific 13 to enhance our AANR technology transfer efforts in the regions through increased partnerships of PEAARD and the DOST Regional Gibbs; 17) is promotion as St Pearl Invoictions and strategies expectally those supported by PCAARD and/or DOST in the AANR section for countryingle rural development 3) to a site regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	13 Packaged and approved at least seventeen (137) exchoology transfer and premotion projects. 27 regions; 29 Jackad at least seventeen (170 communities across the realizer, 39 regions) on the regions of the regions of fixers 4) Forged and signed seventeen MGAs with the DOST regional office.	DOST Regional Office 7	his program intends to assist communities in emergency and hazardaffected areas, marginalized farmer and finer folia, upland dwellers, indigenous communities, agration reform beneficiaries (ABB's), even thus rehabilities, as well as groups of souther, out of stood youth, serioris delivers, relef returness, expectally hose 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 Emegancies and Hazards in the Agriculture, Aquatic, and Natural Resources Sector	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PCARRD programs, projects and other in-up, in through obser- partnerships and collaborations with ent-th of the DOST Regional Differs arross the nation Specific 1) To enhance our ANAR fection long transfer efforts in the regions through increased partnerships, of PCAARD and the DOST Regional Offices, 2) To promote more SSI invovations and strategies especially whose supported by PCAARDD and/or DOST in the ANAR sections for countryade rural development 3) To satisgrate the involvement of DOST and assist PCAARDD-funded technology stransfer activities and projects in the regions, particularly, during periodic reviews and monitoring and evaluation of technology stransfer endeavours.	1) Plexaged and approved at least severteen (17) exchology transfer and promotion projects in 17 regions; 2) Assisted a least severteen (17) communities across the nation; 3) Serverghened network and initiages with the 17 regional offices 4) Forged and signed severteen MOAs with the DOST regional offices	DOST Regional Office No. 8	his program intends to assist communities in emergency and hastardiffected even, unprolatined famour and fiber folia, upon described, indigenous communities, a special reform beneficiaries (ABS), even that greatest less as well as prosper of worten, out of school youth, service yellow, rebit returners, especially those from the power 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 Unkages and Strengthening Partnerships among Institutions	Rapid, inclusive and sustained economic growth	The project is being proposed primarily to enhance the partnership and organize the institutions and agencies in the Biool Region to implement relevant and responsive SAFE project in the AANR sector. 1. To enhance participation among Consortium Member Institutions (CMIs) in implementing SAFE institutions on AANR sector in the Biool Region. 2. To strengthen the organizational structure of the SAFE Form in the Region. 3. To develop a plain for the implementation of the SAFE program from 2017-2022.	identified panner institutions to implement the SAFF program in the Bicol Region - Prioritated and directle diss for initial process implementation - Packaged at least five (S) proposals within four months and submitted to the PCAARRO SAFE program	DOST Regoinal Office No. 5	This program intends to assist communities in emergency and hazardaffected area, manignalized farmen and fisher folia, upland duellers, indigenous communities, agrarian reform beneficiaries (ARRS), even refor principless, as well as groups of women, out- of school youth, serions/elders, rebel returners, 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 Sike in the Agriculture, Aquatic and Natural Resources Sector - Mindanao Cluster Group	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PCA/ABRD programs, projects and other tie-up, through closer partnerships and collocations with each of the DOST Regional Differs across the nation Specific 13 to enhance our AANR technology transfer efforts in the regions strough necessed partnerships of PCA/ABRD and the DOST Regional Offices. 17 for permoteners Self immunistrans and strategies especially strangers better the modernment of DOST and assist PCA/ABRD-funded technology transfer activities and projects in the regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	13 Packaged and approved at least seventeen (17) technology transfer and promotion projects in Tegeins. 2) askided a least seventeen (17) communities, accord to enable, or support of the communities accord to enable of the communities of the analone, 31 seventeen MOAs with the DOST regional office. 4) Forged and signed seventeen MOAs with the DOST regional office.	DOST Regional Office No. 10, DOST Regional Office No. 11, DOST CARAGA	This program intends to assist communities in emergency and hazardaffected area, angivalent farmers and fisher folis, updat deallers, indigenous communities, agardan reform beneficiaries (ABR), emer ding rehabilities, as well as project shorome, undi- scribed youth, seriors/elders, rebel returners, especially those from the poorest of the poor provinces in the country.	01-Jun-17	31-Jan-18	NEW	900,000	900,000
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 and Hazards in the AANN Sector (SAFE) program in the North Luzon Cluster	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PEAARSD programs, projects and other for use through closer partnerships and collaborations with each of the DOST Regional Differs across the nation Specific 13 to enhance our AANSI technology transfer efforts in the regions through increased partnerships of PCAARSD and the DOST Regional Offices; 17 to promotion resid Throusdoms and strategies especially those supported by PCAARDD and/or DOST in the AANSI sections for countryside rural development 3 for in the regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	13 Packaged and approved at least seventeen (17) technology transfer and gromotion projects 27 regions; 29 Jackad at least seventeen (17) communities across the realizer, 31 regions of property of the property of the pro	DOST Regional Office No. 1	this program intends to assist communities in emergency and hazardifficted new narigifative filterine and filter filts, uptand dwellers, indigenous communities, agartan reform beneficiaries (ABIS), one of the properties and the properties of stock operations of the properties of the properties of stock operations of the properties of the country population of the poor provinces in the country	01-Apr-17	31-Jan-18	NEW	2,150,000	2,150,000
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 and Hazards in the AANR Sector in Zamboanga Peninsula	Rapid, inclusive and sustained economic growth	General To strengthen DOST and PEAARD programs, projects and other lie-up-in through closer partnerships and collocations with each the DOST Regional Gibbs caross the nation Specific 13 to enhance our AANR technology transfer efforts in the regions through increased partnerships of PEAARD and the DOST Regional Gibbs; 17) is promotion as St Pearl Invoictions and strategies expectally those supported by PCAARD and/or DOST in the AANR section for countryingle rural development 3) to a site regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endeavours.	13 Packaged and approved at least seventeen (137) exchoology transfer and premotion projects. 27 regions; 29 Jackad at least seventeen (170 communities across the realizer, 39 regions) on the regions of the regions of fixers 4) Forged and signed seventeen MGAs with the DOST regional office.	DOST Regional Office No. 9	his program intends to assist communities in emergency and hazardaffected areas, marginalized farmer and finer folia, upland dwellers, indigenous communities, agration reform beneficiaries (ABB's), even thus rehabilities, as well as groups of souther, out of stood youth, serioris delivers, relef returness, expectally hose 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, Aquatic and Natural Resources (AANR) Sector in SOCCSKSARGEN	Rapid, inclusive and sustained economic growth	The general objective of the project is primarily to strengthen collaboration among \$8.7 partners in Region 301 in packaging and implementing projects and activities under the SAFE program Specifically, the project aims to: Lideratify and organize institution or stakeholders in the AANR 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	12 region; 2) Assisted at least seventeen (17) communities across the nation; 3) Strengthened network and Inkages with the 17 regional office, 4) Forged and signed seventeen MOAs with the DOST regional offices.	DOST Regional Office No 12	The program intends to assist communities in emergency and based and the program of the folia, upland deallers, indigenous communities, agrarian reform beneficiaries (ABRS), even die prabiblities, are vell as groups of women, out of school youth, seriour/elders, rebei returnees, especially those from the poorest of the poor provinces in the country.		30-Jun-17		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 MME activities such as mid-year and annual program reviews, field visits; financial report and serves as repository of documents about the program		VSU	c	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	General: To improve the productivity and quality of Queen pineapple under cozonal interropping scheme specific 1.1 to optimize a micropropagation betwingieve direct multiple shoot induction 2. For Queen pineapple. 3. To evaluate two somatic embryogenesis protocol for queen pineapple. 4. To assess somandousd variation is important trast of open pineapple. 5. To evaluate the field performance of tissue culture devined planting. 6. materials in comparison with suckers under coconut intercropping scheme in 7. Leyfe and Camarines Norte conditions.	Optimized micro-prospection technique for Clavera pineagele via direct multiple shoot inductive. Efficients smarter devrogeresis protocol Covera pineagele letting (Severa pineagele indirect), productive and high yielding Queen pineagele populations suitable for coconsul intercropping productive and high yielding Queen pineagele populations suitable for coconsul intercropping	vsu	Princepple growers in 2. Princepple traders (local and export) 3. Princepple 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 (Annacteristics	reduction and empowerment of the poor and vulnerable	General: To characterize existing Queen pineapple populations and do selection among individuals within populations where considerable variability exists. Specific: 1. To dentify important characteristics of Queen pineapple that are related to yield, fruit quality, market acceptability and possessing potential 2. To determine the range of phenotypic variability and possible correlations among important growth, yield and blochemical characteristics of Yoseer pineapple plants on among important growth, yield and blochemical characteristics of Yoseer pineapple plants on processing and (b) parents for genetic improvement 4. To establish two reproduction/conservation sites of secretary conservation sites of the processing and (b) parents for genetic improvement 4. To establish two reproduction/conservation sites or selected Yoseer' pineapple plants in Camarines Norte State College (CKSC) and Visayas State University (YSU) 4. 4. S. To determine the effect of fruit maturity and growing conditions on the biochemical characteristics of Queen' pineapple 1. So identify possible processed groducts that may be developed based on biochemical characteristics of Yoseer pineapple.	Camarines Note and Leye 2. "Queer' pineagepic plants with fruit size of at least 15 centimeters long and 10 centimeters disunters, fruit weight between (28 to 2.5 g, and with normal fruit shape identified 2. "Parts with the highest they yeld identified and leaf characteristic succided with which the properties of	VSU, CNSC	Commercial 'Ouers' pineapple grover/firmers in Canarines Notes and Lept 2. Research and Educational Institutions (IOSC and VSI) 3. Pineapple Stern industry stateholders 4. Pineapple breeders S. Cocomis and Vsern' pineapple based product processors and consumers 6. LIGUs	15-Apr-16		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	reduction and empowerment of the poor	General: To determine the optimum plant population of queen pineapple under intercropped systems in Regions 5 and 8. Specific Component 3: Determine optimum plant population of Queen pineapple under pill-based cropping system 2. Assess performance and effect of fertilizer management on the yeld of pill. Components 1 and 2. 3. Determine optimum plant population of Queen pineapple on open upland area, concuntased at 10m x 10m density and concurs based of 10m x 10m density and coccurs based with irregular spacing. 4. Verify the response of queen pineapple planted under occursors based cropping system with different planting densities in terms of a) Agronomic performance, 10 mile density and captured quality; clad enhances and office the proper performance. 5 Assess performance and effect of fertilizer management on the yeld of occornit.	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	Gueen pineapple farmers, Agricultural technicians, LGU), Farmers associations and operatives and other institutions involved in queen pineapple, 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 sustainable pest management strategy of Queen pineapple under different copping systems in luyer and Gamarines Notre Specific 1. To survey, assess and identify the major arthropod pests and diseases of queen pineapple pasted under different copping schemes in selected localities in lepte and Camarines Notre; 2. To monitor the abundance and dynamics of the major pests and prevalence of disease; 3. To conduct biological studies of major invest pests collected localities in characterization of diseases. But 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 pineapple under different cropping schemes detected project start, and	L Identification of major pests and diseases of guern pineagels under different cropping schemes 2, Identify potential naturally occuring boron agents gaint major pests and diseases of pineagels under different cropping schemes 3. Establish the population dynamics of major insect pests of pineagels 4. Data base on Idensess seventy, includers and provalence of pineagels in order to develop effective management strategies 5. If Constraints for pests and diseases association with pineagels est field guide for identification, diagnosis and surveillance and their sustainable management. 1. List and documentations of indigenous, conventional and traditional pests and diseases control attractions of indigenous control agents and anagonists to be used in the development of effective pest control strategies; 2. Ifferither mass production techniques for insect arthropod bioxina, negarith and major scheme and interchiques for promosphe gains and anagonists, and 5. Ser-specific substantials bioxin agents, including intron importangents and anagonists; and 5. Ser-specific substantials bioxin agents, including intron importangent and integrations; and 5. Ser-specific substantials bioxing agents, including intron importangent and integrations; and 5. Ser-specific substantials bioxing agents, including intron importangent and integrations; and 5. Ser-specific substantials bioxing agents, including intron importangents and integrations; and 5. Ser-specific substantials bioxing agents, including intron importance and integrations and integrations are supported to the production of the productin of the production of the production of the production of the pr	vsu	Iscal farmers and stakeholders, scadems, researchers, policymaken; 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 5. Development of Various Products from Queen Pineapple Wastes	Poverty reduction and empowerment of the poor and vulnerable	The project aims to 1. Galber information on production and posthanest practice on Queen Princepple in Camarines Notes 2. Assets the production and posthanest losses on Queen princepple 3. Promote appropriate production and posthanest technology for Queen Princepple.	1. Compact, convenient and leve cost feedship coal this is all estimated and environment friendly with high quality huming elitimony and legal regulps of consumption. 2. Economically feesable feed supplement for best health and performance of nather chicken. 3. Perfect Bland of multi-use marriadee mix-which is alse for quick and easy way of perking up and tendestrage meat for savely delives misus perservatives and coloring. 4. Cost and return analysis of the developed products 5. Reduction of positionvent wastes up to 60% their value-adding.	CNSC	Famers, IGUs, Biofuel Manufacture; Of grovers, entrepreseurs, students, extension workers, researches	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	scenes. The project will condust the Queen pineappie (DI) grade standards and sales the proprehensation of an compliage in Caramine force in Sales for Opiny reforms and ferminations, Specific 1. Determine the OP grade standards implementation in terms of technical assistance, capability building, monotonic grad supervision, policy to upport and organization of ferm groups and compliance; 2. Determine the feature 3 advantages and dealermanges of the proprehensation and compliance; 3. Determine the same of the proprehensation of the proprehensation of the proprehensation and compliance; 3. Determine the same of the proprehensation of the proprehensation and compliance; 3. Determine the same of the proprehensation of the	Distance on Implementation of And Compilance on Queen Prespipt (QP) Code-Standards in Commission Series (Code-Standards in Commission Series 2, Code and Return Assigns in collecting Code-Standards (Series 2, Marketsbillity index for QP	CNSC	Queen Princepylle 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 growth	The project aims to increase the productivity of peanut by 30% through the application of drip irrigation technology	Nalidated irrigation management strategy for peanut II Pilot test farms showcasing the DI schoology. The analysis of process of the process of the process of the process of the pilot SCNS II more and the process of the process of the process of the pilot proce	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 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	2,032,641	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, fletting 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 maland ducks (Ansaplarhymhoch). Specific dejectives include: 1. To determine the apparent metabolizable energy content of corn, wheat, rice, sophean meal, cassave meal, whate polaric, here than a plant himself and the properties of th	1. Feeding value of conventional feed ingredients for Philippine mallard ducks. 2. Antient regularizer 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 nutrient enginements can also serve as guide for leaves of Anniel Industris, in regularizer free quality of the engineering character of the produce of the product of the prod	UPLB	Listablishment of nutrient requirements of Philippine mallard ducks will help duck earns to improve they productivity and profibability, by to now, there are no established nutrient exequirements of Philippine mallard duck and commercial duck exequirements. Or Philippine mallard duck and commercial duck execution of the Commercial Commerci	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 Mallard Ducks under confined condition	Feeding program for the improved breed of Philippine mallard duck 2. Feeding systems for the different stages of PAID in confinement 3. Identified stocking density/floor space requirement optimum performance of PAID at growing and layings stage rated under confinement system 4. Determined effects of made de agua (leaves) and surface and supplementation on production performance and improved egg castly of PAID.	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 PAID at different stages under free management system	1. Feeding program for the improved breed of Rillippine mallard durk under range management, patient 2. Meetindfeed fortom that in much fedicient to use at group call being stages under range management system 3. Bestelfied stocking density for cytimum performance of PRID at growing and large raised under range management system. 3 Resettled stocking density for cytimum performance of PRID at growing and large raised under range management system. 4 Resettled effects of detailed and a supplementation on performance of PRID on range. 5. Stentified levels of mixed feet supplementation for PRID on range. 6. Evaluation of different fauna and flora in the hext. 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 I 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 cacao and b) use the established gene marker/IST database for cacao improvement through functional genomics	Analyzed gene markers for 5 cacao HYVs	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 I Marker for Important Traits in Rubber Production and Clone Improvement	Rapid, inclusive and sustained economic growth	The project aims to establish generic data nabber and develop gene marker/expersed sequences to giST) actualisates for naber, bis is started development of high-yielding writery of clones compared to the development of new varieties of nubber through the long gestating traditional breeding technique.	database for rubber	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 towards the sustainable development of capture and culture bearing production of multicologies, Search 2, olivacra, and S. tranquebarira. Search Objectives: 1 Develop genomic resources based on SNP markers for Search 3, olivacra, and S. Search 2, olivacra, and S. tranquebarira. Search Objectives: 1 Develop genomic resources based on SNP markers for Search 3, olivacra, and the search objective schizologies of the SNP objective schizologies objective schizologies of the SNP objective schizologies of the SN	1. L-demonic resources for genetic stock delineation (SIP markers) for three Sofial species: Serrats, Solivaces, and Stranquebinst, of identification of management units for natural populations of Sofial seriats and S. obveces. 3. Developing SIP markers for tracebility of Serrats and Society series and Society of origin. 4. Technical lapsus to development of policies for other and capital methods finderine towards international certification/recognition of the Philippine muldions finderine towards and a model for best practices.	UPD	1. State-holders is the muckrals industry (government and private sector) may benefit own the development of markers for molecular selection for phenotype and certification of best quantumbure and finitely practices. 2. Recovery managem, e.g. (LOI) and other government agencies may benefit for policy and other government agencies may benefit for policy and collection of the control of the collection. In Fishers, and other derivation may not be long-tended. In Fishers, and other derivation may not be long-tended to the control of the control of the collection of the control of the control of the collection of the control of the collection of the control of the collection of the control of the control of the collection of th	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	The project's main objective is to use personics and prevents approaches integrated with more recent immunification and projection and projection and projection and incomplete personal projection and projection and projection interests of some practical must craib production issues. Develop an automated dissulfaction system for species identification of early stage must craib as the projection interest or early stage must craib as the projection interest or early stage must craib as the projection interest or early stage must craib as the projection interest or early stage must craib an interest to elevate temperature and validate profession and hormones to monitor for moting and evaluate their profiles under different resing conditions. A Calability the general chairs of the immuniture female phenotype, a market preferred character in mud craib.	Automated dissider system for juveniler (inster med colors on FC and mobile device Application. 2.05 maps that regisses envilonmentally content and generally under color farm sizes to exploit temp a Populations of temperature tolerant mucl crash for use in establishing broodstock are selected. A Candidate Eventual Color of the Color of the selection of the Color	DLSU	Manages of the multi-chail hieron 2 Tainen that supply the mu- cally levelle finitely. Abla crick forms and proof ensers. Abla crick forms and proof ensers. Abla crick forms and proof ensers which crick but their proof of the decision makes that may be secondarily involved in the multi-crab industry.	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 Oil 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 evaluate the Coconst Winsks 1 (CWWI1) gene in association with oil propertiests in an experimental moreon model system 200 may 1. (Som). 1. To transfer the CWWI1 assette into a settled price can hierarch including the gene gun (increpanticle contractions). 2. To regenerate transformed corn tissues into plantlest under contained laboratory and greenhouse conditions. 3. To analyse expression of the transgene CWWIII in GMI com by Quantitative Reverse Transcriptase Polymerate Chain Reaction (pRT PCI) 4. To analyse the into all content of the GMI com (whole plant) in comparison to control maize materials 5. To analyse the total of content of the GMI com (whole plant) in comparison to control maize materials 5. To analyse the total or price in GMI com kernets to validate changes of fastly and composition in comparison to control maize samples and occonst.	1. Plant in tions calling products, regenerating transformed tissues, whole planties in bottles, planties in the process of hardering lucelimistation and plants in the RLZ generature and plants of the RLZ generature and planting the RLZ generature and planting the RLZ generature and planting the RLZ generature and RLZ generature an	UPLB	Once the redictions will be place hybridegists and groupmoned sign in this will we all selling the developed tissue offers protocols for other related or unrelated studies such as faster improvement elemanement of the protocols, see of the protocols for mutation induction using embryagenic call superpossions, etc. Oncodege and development of techniques for enhanced give expression studies for undergraduate (ISS ABT) and graduate students (ISA on PhD in MBB); adultity stakeholdes who might invest in the maturation of the technology developed for the production of coccurs of and other products the control of the control of the technology developed for the production of coccurs of and other products believe the control of the technology developed for the production of coccurs of and other products believe the control of the technology developed for the production of coccurs of and shabutal applications.	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 Philippine 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 attembled genomes of Tall/Dwarf occonut varieties and map the blomarkers, genes, QTL loci on occonut linkage map	As least 30 noticeable markers associated with early flowering, fast growth, oil and nut yield, and water content and quality; one (1) Inkage map of coconut	UPD, PCA	Coconut farmers, coconut 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 Secding for a Competitive and Sustainable Philippine Coconut Industry	Project 3 Phase II: Curation, Validation and Utilization of Coconut Transcriptome Sequences for Gene-Based Marker Development	empowerment of the poor and vulnerable	2. Curst and submit to public transcriptione sequences repository (will become available publicy) after a year from time of submission concept publicy after a given from time of submission concept publicy after a [IGAGT], cutiquen Tall (FMT), and Yearnatiz Tall (FMT) and Yearnatiz Yearnatized yearnatized yearnatized performance speciments. 1. Validation of differentially expressed genes through possibilitative PCR and Sanger Sequencing 6. Test trait markers in PCA germplasm collection 7. Write and submit for review the papers for publications	A. Assembled and amorbated transcriptome sequences of MAGD and MBDATAG. 2 Curated a toxinoted transcriptome sequences of LMCD, BANT, PRIM, and TVT to public repository 3. Curated and stored transcriptome sequences of MAGD and Malayam. AMBDATAG transcriptome sequences to public repositors 4. PLatine gene markers confering legin rul yield, shelf-thickness, high toddy yield and high-water quality. 5. Gene expression patterns and trends for target traits uraing rigit and valence alignments. 6. Identified occurat varieties from the PCA greenplasm collections which possess the genetic markers for each specific target. 7. Publications	UPD	Corout breefers will benefit since they can utilize the newly discovered makes to taget for specific traits during breeding and creation of new varieties.	01-Nov-17	31-Oct-18		2,698,108	2,698,108
Improvement of Coconut Varieties through Genomics, Genetics and Breeding 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 analyses for oil biosynthesis, Makapuno and Lono traits for generation of molecular markers	At least three (3) gene identified for all biosynthesis of high-yelding variety, Makaguno and Looc, at least three (3) developed marker specific for the gene identified.	UPLB, PCA	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	Stentify and select for San Ramon Tall cy Orgulo and single cross-hystrids for regional release using market assisted selection	At least ve (21) yethetic varieties developed through MAS for dissemination to farmers; three (31 varieties—Outstanding Tall, San Ramon and PCA Hybrid, selected through MAS for dissemination to farmers	UPLB, PCA	Coconst farmers, coconst 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	Identify QTL and develop sequence-specific DNA markers for yield and copra quality from an advanced PCA mapping papelation	Polymorphic DMs markens between parental population Sofenetic Indep any of coronut. Megand ITLs for coconut productivity, and yield/quality of copra oil and other nut major by-products. Sofenetic Indep and ITLs for coconut productivity, and yield/quality of copra oil and other nut major by-products. Sofened ITLs for coconut OTLs Sofened ITLs for coconut OTLs And underlying candidate genes.	UPLB, PCA	Coconst farmers, occord organizations and communities extension workers, EGUs	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 occount with breeder book/browser and develop molecular markers targeting glandular trichomes and scale insect resistance	In Passiver protected who based genome database of Cocon nuclera consisting of sequence seasonables and anatolation, genome welds Shi marder and per installed breeder tools and genome browser. b) Characterized coconst glandular trichone loc/genes tagged with sequence-specific DNA markets. On Control plant is a cocon to for glandular trichone genes and related genetic factors, did Coconst plant it has obbit differential reaction against scale insect in infeatation and SNP markets ragging the candidate resistance loci. At I least one (1) plantation of significant research finding in (5) pursual	UPLB, PCA	Coconst farmers, coconst 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 greetic and molecular mechanisms involved in coconus oil biosynthesis and in makapunc and lone phenotypes.	Al Technical Progress Report, b) Reviewed project accomplishment; c) Monitored the project employmentation; d) Terminal Report	UPLB, PCAARRD	Coconst 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	PMC	Poverty reduction and empowerment of the poor and vulnerable	To effectsky manage, monitor and coordinate the flour (4) project components of the munglean program being implementable by eight (8) implementing/ cooperating agencies covering at least 6 Regions (Regions 2, 3, 4, 4, 6, 11 and CAR).		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 munghean for drought and partial shade conditions. Specific Objectives. 1. To develop populations of munghean with potential for drought telerance; 2. To develop populations and lines of munghean for partial shade clarance; 3. To evalues the lines under drought and partial shade conditions; and 4. To conduct genetic diversity analysis of selected munghean genotypes	Year 1 L Varieties selected for drought and shade tolerance. 2. Tolerant populations developed. Year 2 L Population/ lines screened for drought and shade (on-station and onfarm) Year 3 L F4 to F6 populations tolerant to shade and drought 2. Secondary (20) traits identified	UPLB	Rice farmers with potential to grow munghean after the rice crop, upland farmers, coconut 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	reduction and empowerment of the poor	his study generally aims to sustain availability of high coupling which of improved mangibean varieties in anying regiving a read in legions 2, 3, 6 and 11 coupled with improved send storage technologies. Specific Objectives: 1. To evaluate and determine the most effective and economical hermetic send storage technology for certified and farm-saved mangibean seeds; 2. To pick test the improved hermetic seed storage technology. 3 To promote seed saving technology to 1000 farmers per region, 4.7 for ensure local substitution (6,600 lg Foundation Seeds (F3) and 61,250 lg Registred Seeds (F3) (Certified Seeds (F3) of improved numplean varieties in Regions 2,3,6 and 10, actual of 67,300 lg callally seeds; and 5.1 osupport commercial production of improved varieties in expansion areas of at least 6,800 hectares in Regions 2,3,6 and 11.	Inex 1 L. Established seed storage facilities in participating DA-RIAGC (DACVIRC, DA-CLIARC, DA-WISSNARG, and DA-SMIARC). Produced 67:30 form of high quality and improved seeds varieties 3. Trainend, organized and accredited seed grows: Vars 2 Limproved hermetic seed storage technology for certified and farmsaved seeds 2. Assisted 50- 100 farmers per region on seed production Vars 3 1. Established one rural seed center/ region (Regions 2, 3, 6 and 11). 2. 100-200 farmers-adopters per region on seed prospective chipses 3. As load 64:30.00 has seed production expansion area 4. Production and distribution of IEC materials on seed production.	DA-CVRC, DA-RFO 3, DA RFU 11, DA- WVIARC	Leve Horne Earmen in corn., rice, assava, sugerrane, & 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	Powerty reduction and empowerment of the poor and vulnerable	The project generally aims to reduce pest damages of mangleon by 20% through adoption of improved teleptractic Opp Mangement (ICM) systems in order to increase cropy yield. Specific Oplictives: 1. To increase manugleon yield through reduced infestation/damage of pod boner and use of available BCAs and botanical extracts; 2.1 for reduce Cercospora leaf spot disease of mangleon through application or organic extracts, Trichoderma, 3. Where the analysis of the disease of the control of the control open of the control open of the control open open open open open open open open	Text 1 Secremed SCAs (for pod borer and Cercospora leaf spot) 2. Fertilizer management and Rhizobian incordation for mungbean Year 2 L. Tested (on-fam) BCAs and nufrient management systems 2. 30 farmers assisted per region (total of 120 farmers adopters) Year 3 I. Produced and distributed IEC materials on BCAs and ICM 2. Trained at least 30 farmers (a total of 120 farmers-adopters) 3. Developed and promoted ICM (BCAS, BEs, Organic Fertilizers, 10 Cangeenan) for mungbean for different cropping systems	DA-CVRC, DA-RFO 3, DA RFU 11, DA- WVIARC, PAC	Mungheen furmers, rice, corn and sugarcane furmers, researchers, students and other stakeholders	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 Livelihood, Income and Food Supply Enhancement (litik 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	Listabilishment of the mutritional value of balks and other duck egg products; J. Identification of furcional nutrients of balks and other duck egg product; J. Identification of furcional nutrients of balks and other duck egg products consumption; J. Identification of the religion bistory and culture on balks and other duck egg products consumption; J. Listabilishment of the duck egg products on the nutritional values and fructional attributes of nutritional values of sublishment of ablks and other duck egg products in developing invocative processing techniques for traditional and new duck egg products S. Develop processing and packaging techniques that will uplift the value and acceptability as well as shelf life of duck egg products	1. Nutrient profile and value of duck egg and duck egg products and unique dietary value of duck egg moducts: 2. Functionality of duck egg components that can be used in developing innovative duck products; 3. Processing and polaging innovations that will increase the quality and shelf-life of duck egg products such as balast and safeld egg: 4. Philippine national standards for duck egg products; 5. Uniformity in quality of duck egg products for competitive pricing and increase consumer preference over affectant leg pools; 6. Increase duck egg product consumption because of enhanced consumer confidence	UPLB	total duck egg enterprises, duck breedens, duck raisens	01-Aug-17	30-Jun-2) 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	The project will address the need to promote the acceptability of the haram protocol by developing a LAMP based test kit that can detect pork, dog and horse meat contaminants in cooled and processed food.	Text 1.5 optimized LAME easies for select, horse and dag meat (20) 8.50 Selection R.S. Schillation relation on RE-Halla Ident Imperimentation (3)) stool services trained via R.SHallal GEM (24) 8. SSSU Agro-Mechanic Building as Nalai Small Ruminants. Saughtenbouse and Processing Center (24) 8. Local ordinance on the use of the sleaghtenbouse relationship of the selection of	USM	Goat rainers: Processors Hald certifying bodies (DA-PCAF, BAI, RMIS) Livestock-policy-making bodies (DA-PCAF, BAI, RMIS)	01-Jul-16	30-Jun-1	ONGOING	3,933,961	1,082,289
in Region 12 and ARMM	Project 2. Establishment of Halal Goat Enterprises thru the FLS-Halal GEM in Region XII	inclusive and sustained economic growth	This project will promote the hallad assurance protocols to farmers, certifying bodies, LOU counterparts as well as D.A.A.T and Fulf-Projected transfer melgors 1.2 and Advantage the Fis-Halad GGM. This is to ensure the "halalness" or halal integrity of products from production to processing.	trained or R-SH-shall GEM Implementation (23) § 100 farmers trained via RIS-shall GEM (24) § SSSU Agro-Mechanic Building as Natio Small Reminiants Saughtenhouse and Processing Center (24) § Local ordinance on the use of the slaughtenhouse (24) § Local ordinance on the use of the slaughtenhouse (24) § Local ordinance on the use of the slaughtenhouse (24) § Local ordinance on the use of the slaughtenhouse (24) § Local ordinance on the use of the slaughtenhouse (24) § Local ordinance on the use attackment of the half ordinance ordin		Gast raiser; Processors, Holaid certifying blooks; NMF, Uvestock policy-making bodies (DA-PCAF, BAI, NMIS)			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 ARMMA.	Year 1.E Optimized LAMP assays for swine, honce and dog meat (CQ) 8.50 Regional F.S. Socilitations trained on FLS-Halla CBM Implementation (CQ) 9.10 C0 farmers brained via FL3-shall GEM (CQ) 9.10 SSU days Mechanic Building as shall Small Ruminiants. Skulghtenhouse and Processing Center (CQ) 9.10 Local ordinance on the use of the slaughtenhouse and Processing Center (CQ) 9.10 Local ordinance (CQ) 9.10 Philippines recommends for hall continued to the continued of the continued	SKSU	Goat rainer, Processors Hall certifying bodies, NCMF and focal laboratories Uvestock policy-making bodies (DA-PCMF, BMI, NMIS)	01-Jul-16	30-Jun-1	3 ONGOING	1,574,008	771,687
Innovative Systems in Advancing Technology-Based Goat Production	Project 1.1 Organized Breeding and Selection of Individual with Similar Morphometric Characteristics	s 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	Statelible Mreeding program Uniform quality Pot Stocks 1 Rered registration for CV signature goat 1 Revent registration for CV signature goat 1 Liquid inforegen gap plant 10 Multiplier farms for CV goat breed 2 New nucleur/ breeder farms for selected elite CV goats	ISU	Goat raisers, Livestock policy-making bodies	01-Apr-17	31-Mar-2	NEW	13,442,928	10,359,299
Innovative Systems in Advancing Technology-Based Goat Production	Project 1.2. Application of Assisted Reproduction Protocol in Support of the Establishment of CV Signature Goat Populations	Powerty 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	1 utility model (UMI) for pregnancy detection list 1 priortohype goat pregnancy detection list	isu	Gost raisen FGASPAPI	·	31-Mar-2		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 goat	1 utility model (UM) for pregnancy detection is: 1 prototype goat pregnancy detection is:	ISU	Goat raisers FGASPAPI	01-Apr-17	31-Mar-1	9 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	1.5MS-capable data monitoring system 1 established traceability system for breeders and chevon products	ISU	Goat raisers FGASPAPI	01-Apr-17	31-Mar-1	3 NEW	4,186,132	4,406,154
Innovative Systems in Advancing Technology-Based Goat Production	Project 4. Roll-out of Technology-based Options in Region II, III, V, VIII, VIII, XI, XII and CAR	l, 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	1 copyright for FL-GEM manusis Revised FL-GEM signals Visit R2 10 MOUS signed with various stakeholders for FLS implementation 6000 farmers trained on GEM 300 facilitators trained on FLS-GEM implementation	isu	Goat raisers FGLASPAIP LIGUs and AFWs	01-Apr-17	31-Mar-2) 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 S. 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	1 established ET laboratory 1 enhanced semen processing laboratory 1 mindle blowcarty Partnership with other industry stakeholders on the use of the repro lab	ISU	Gest raises FGASPAPI Gest products consumer	01-Apr-17	31-Mar-18	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 Cl 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-17	ONGOING	10,682,468	917,082
Integrated and Sustainable Development Program for the Shrimp Industry.	Project 7. Pathobiology and development of molecular detection kits for EMS/AHPND	Rapid, inclusive and sustained economic growth	The research study will fill the gap of information about the disease in the Philippine setting while also validating the data of other international exceptors conducted the Philippine setting while also 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 bacterial loader that causes IMS in the Philippine: 2. General sequence of the bacterial and the tootic gas. 2. Established gashtobiology and mechanism of virulence. 4. Developed protocol/hits for the molecular detection of EMS.	UST	target beneficiaries include: J. Shrimp hatcher portation — early detection of AIPNID is pool water or arbrings samples will incorpore the productively of the different hatcheries and prevent possible cross contamination of the causative agent. J. Shrimp farmers— molecular detection in the farm level provides a reliable surveilluces protocol for the farmers to detect early sign of the disease, gains agent term to misque the problem, publication of these tones are sufficient to the problem of the surveilluces and the surveilluces and the surveilluces of the s	01-Jul-15	30-Sep-17	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 holistic approaches including ecosystem management biocontrol strategies involving the use of thispia green water, bidner, colher systems and maipulation of laival country. This proposed research is environment to provide solution in a preventive and cological country. This proposed research is environment to provide solution in a preventive and cological suppression approach in managing the problem associated with EMS/AHPND in cultured shrimp.	a.) Mechanism on how the pathogen is inhibited by Tilapia, elucidated. b. Microbial species and bloache metabolities with pathogen inhibitory activities, identified and b. Microbial species and bloache metabolities with pathogen inhibitory activities, identified and b. Domity of Tilapia in prem water reservation thank that inhibits the pathogen growth in water, identified d. All foundable species (Bacteria, Fungi) associated with fibe with Whon inhibitory activity, characterized and identified. d. All filmore in the properties of the immunostrativation that could result to resistance against ty parahamedylosis infection, educated of the properties of t	UPV	Target beneficiaries include: 1. Shrimp hathery operaturs — early detection of ANPNO is pond provided by the provided of the discusse, price agent letter to resign per the problem, publication of the order of the provided	01-Jul-15	30-Jun-18	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 growth	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): Folksate the growth performance, feed efficiency and biochemical composition of fish neared with diets containing PECM. c): Formulate optimized feeding guide in the use of PECM as feed ingredient in aquatic animal feeds.	Diets for slapia, milifals, shrimp with PECM as major protein ingredient, formulated, formulated, and growth performance of PECM feed aquatic animals rearred in outdoor scale up modescript profile, reducted. Influence of diets containing PECM on carrass composition, sensory quality, and consumer acceptability, evaluated.	UPV	Fisher folks/traders/ feed industry; researchers/scientists, the general public and science in general.	01-Apr-16	31-Mar-18	ONGOING	10,840,723	4,947,702
NATIONAL AQUAFEEDS RRD PROGRAM PROCRAM D. IMPROVEMENT OF MICROALGAE PASTE PRODUCTION FOR AQUACULTURE	Project 1. Pilot-testing of microaligae paste as feed for shrimp and milkfish hatcheries	Rapid, inclusive and sustained economic growth	Concer of Digitative. To determine the feasibility and visibility of using microslipe paste as larval feed in middlesh and shrine platefrees. Specific Objectives: 1. To complete the larval rearing production cycles for middlesh and shrine pusing the UPV microslipe pastes as feed. 2. To determine the growth and survival of shrining and middlesh larvae in hastlesses using microslipe paste. 3. To compare the nutritional impact of using the microslipe paste in shrining and middlesh have against the conventional threely protected. 4. To compare the operating cost of hattheries compare the cost from the conventional threely protected. 4. To compare the operating cost of hattheries compare the cost brown of hattheries compare the cost brown of a shall stackery with the full complement of natural food tank against hatthery with reduced or no agist staks. 6. To come up with a new protocol using sligal paste in millifiath and shrining hatcheries.	A new production protocol for militide & shrimp hat there is using microalgae paste 2. Microalgae Paste tested and ready for commercialization.	University of the Philippines, Visayas	Aguaculary industries and backward hat-bries will be the target beneficiaries of the microalgae paste technology.	01-Jul-16	30-Jun-18	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 microphic patter. To develop appropriate packaging, storage and transport systems for specific Objectives: 1. To conduct physico - demical, biological and microbiological quality analyses of the microphic patter and sponlage pattern. 2 To compute the effect of packaging material, design, methods, storage systems and sc combinations on the quality of microphage patter. 1. To object the packaging and storage systems appropriate for the microphage patter and determine is a shell file 4. To develop a protocol for harmling, packaging, ramport and storage of the micro-plage patter. 5. To conduct excursion analyses to evaluate commercial, ecological and social viability of the developed packaging and storage systems.	Physico-chemical biochemical and microbial quality of microbage spate; and charged a diring storage at ambient and childed conditions; spobling pattern and significant quality parameters identified a Z-Apropriate package and storage system for quality microbigue patter. 3. Determined shelf-life A. A protector for handling, participation and storage of the microbigue patter. So, organization of cost and benefits of packaged microbigip patter s. Commercially assets. So comparison of cost and benefits of packaged microbigip spates or commercially available micro-algor paste.	University of the Philippines, Visayas	total aquaculture industry, the community, the socio-economic web being of the Stake holders.	01-Jul-16	30-Jun-18	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 Philippines at present has little information on the current status of lits coult refer and how this has changed ower the larke decades. This is despite the pioneering assessment efforts between 1376 and 1381, when more than 500 red lites were surreyed (Gomes et al 1381). This lack of any recent, large scale, standardized inventories and assessments of coral reds in the country has also ment that a consistent rational policy and program for the conservation, sustainable use, and management of reds hay set to be developed. The objectives of this include. Mappine identification of coral communities using emmonly used metrics such as large coral communities and representative sites around the Philippines; assess the current state of these coral communities using commonly used metrics such as large done cover and boldenshys, and their vulnerability and realized 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 assessment 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	Polly makers, academic institutions; coastal communities and their local governments	01-Jul-14	30-Jun-17	ONGOING	29,812,599	4,673,105
National Assessment of Coral Reef Environments (MACRE)	Project 2. People and the Environment: Assessment of Ree fish Resiliency and Associated Livelihoods (PEARRAL)	f- Integrity of the environment and climate change adaptation and mitigation	The widespread and continued deterioration of coal needs in the Philippine has large implications to bedieneity consension and the well-being of costati communities, because of their revige association tether habitat, reef fishes are likewise affected by similar threats that face coral communities in the reefs addition to threats from its multiple values (e.g. natural herizing, otheres, burview, etc.). Information derived from this project will not only provide updated mopots on the status of Philippine reefficies, but wall also contribute or our understanding of their scole occomic values, how they can be impacted by threats, and their resiliency given their multiple values to the people.	Status report of red fish communities and site profile of fisheries and other invillocol in Tavi- Farek Sarraguis, Tavinouga, Politios Songano, Crassineries forts, Talianaus, Romélhos, Maria- Turek, Sarraguis, Tavinouga, Politios Songano, Crassineries forts, Talianaus, Carellon, Maria- lioli, Billano, Catha, Bohol, Sarrar sland, Leyte, and parts of northern and existent Mindanao 8 Lastablehment of a monolinoing and evaluation-eropeane and frendsky system (MSRS) single- Pangasinans, Lian, Battangas; Sabbyan, Mindoro Occidental; Tyrsty and Tubahasha, Palawan; and, Lastand Garden Chy Sarnal, Additional monitoring sites will also be established in Visayas and Mindanao after the field assessment.	UPD	Reformates (local and national) to site partners (e.g. community, IGU, acidem, MOJ, etc.); Resource users (fishers, tourists, coral reaf-researchers, etc.)	01-Jul-14	14-Sep-17	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 Habitats	Integrity of the environment and climate change adaptation and mitigation	There are relatively few funders conducted and being reported on the status of imaggives and segarises in different races of the Philippines. Available studies conducted forced mostly on density and cover and less on the ecological and economic values of these ecosystems. The lask of public involvedge on the condition of these haltsuts via - with the exological and economic importance prepertuates the epitotative nature of utilization of those valuable areas (Duarte et al. 2008).	Status reports on status of managroves and seagnasses in Lfan, Batanqass Diffinan, Punganiano, Taylaya, Palawan, Camariano, Camariano Natre Loo and Marbidos, Boothic GlaGoS, Daves Sandarano et an analysis of the status of the status and seagnasses of the priority sandarano et al. (1998) and the status of the status of the status of the status of the status of Sandarano et al. (1998) and the status of the status of the status of the status of Sandarano et al. (1998) and the status of the status of the status of the status of Sandarano et al. (1998) and the status of the status of the status of the status of the status of Sandarano et al. (1998) and the status of the status	DLSU	Reef tilbers, MPA Managers, coastal frishers, coastal communities, and food and fishing industries Other pertnatil benedicaries are reaf and coastal fishers, coastal managers and communities, and food and fishing industries adopting the technology 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 rozal reefs entails determining the boundaries of the management unit. Exclors affecting the state of coral reefs under an occur at scale multipleger than the size of the board reef or marine protected area (MAPA). Habitat or population connectivity is a function of laval dispersal distances and this can range from a few kilometers to a few term of kilometers. In some cases and for some species, this may even extend to a few hundreds of kilometers. See the second of the scale of the special distances of the scale of th	r Sur (Lanuza and Lianga), Tawi-tawi, Northern Visayas (Masbate, Romblon and Marinduque), Calamianes Group in Palawan. ≝ Field surveys for Tawi-tawi; Romblon; Calamianes, Palawan. ⊡	UPD	Local government environment managers, Government agrancies (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 prefix in the Philippines and supported by knowledge from reefs in other countries, took on the developed for outside the condition of contrels, determine the reflain impacts of different stressors, and assess potential management scenarios from existing data and experts' including for the control of control outsides. However, there are still agricultural pain insolvedge and data about many cord need processes. There is great uncertainty involved in evaluating reef health or predicting impacts of management interventions. A Bayesian Belef Network (BBN) is one of the few tools that can integrate both quantitative data and qualitative information (e.g., from experts perception) to all love look at systems more helistically than piscenses. Developing a BBN model will help synthesize current innovledge of coral reefs in the Philippines which can be used to delentify stressors that need to be prioritized and the evaluate potential impacts of management scenarios. A BBN model can also add value to existing monitoring programs by synthesizing of different parameters. A BBN model can also add value to existing monitoring programs by synthesizing of different parameters. See collecting for count force.	8 Report on the State of Philippine reds and ecosystem goods & services based on available Research and registers involvedge II. Complete BBN model using Nettra II Case studies on application of the BBN model	UPD	Coral reef reactives, Local governments glanning 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 growth	This project aims to [1] evaluate the performance of the different daing goad geodypes in the country, [2] develop a selection criteria for local dainy goads, and [3] identify existing and promote management options on goad dainying 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 growth	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 growth	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 seeks. Specifically, hopes to 110 beeds a local field adapsosits for all organized for all greaters (2) Establish the epidemological profile and risk faction of fill his risking scats; (3) Develop and text interventions in the management of fill his disking posts; and (3) Promote to dairy past fames and raisers the use of the developed field diagnostic kit and the protocols in the management of fill 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	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. Alan, specifical, Fains 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 May of differed focurrence in the mussed culture areas in the country. If dentification of the possible causes of the die-Off syndroms Manqueda Bay and stante Bay If Remedial measures to address the cause(s) of the die-Off syndrome Maqueda Bay and Batan Bay If 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 musseb. 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. IMPROVEI 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	 Develop an economical and effective method for induction of triploidy in the green muses! Perna winds. Z. Evaluate the principance of triploid green muses based on growth rate, survival, condition index and organoleptic qualities 	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 Comparative analysis of states and long-line method for musted culture in Baccor Bay 3. Benviornmental Profile of Baccor Bay 5 Secolally, and spate developments profile of for coal 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		The general objective is to enhance production of rubber through adoption of suitable rubber closes in the Philippies, Specific begivenes. To determine the performance of inferent rubber closes under different locations, to showcase nubber production technology for the adoption of rubber saleshedders in the Philippies, is those and determine the profulation and technology and the production of production and determine the profulation and determines the profulation and other production of the production of th	 Conducted adaptability first 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	Fammer, Immer leaders, nubbe stakeholders, nursery operators, researchers, studiests, policy makers, and the whole nubber redustry 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 Trail and Innovation of Propagation Techniques 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 nibber plants derived from somatic embryogenesis and other tissue culture techniques offer good promise because plants developed from the method will eminant be problem of risks and scion incompatibility, Budding, which is the most tedious work in the nurse, will also be eliminated and the supply of rubber seedings could be represented for available at all times. Specific Objectives To develop an efficient tissue culture for rapid propagation in rubber through micro culting, somatic overall control of the control o	Developed techniques on mini-seeding budding, hypoconfy griffing, and early green, grafting of nabbor, Triander prograption in using these homovable techniques for commercial innovative techniques for commercial production of nabbor QPM.	WMSU, USM	Farmer, Samer leaders, noble or stakeholden, nursery operator, nearouters, studies, policy makers, and the whole nobber ledicity 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 rehabilistic and increase the production of Holdmuni solbra in Ita Union through the adoption of sea ranching technology for sea courabler. Specific 1. To adopt sea ranching technology for Holdmuni solbra through the STGB program; 2. To develop farmer's slike in sea ranching of sex couraber; 3. To enhance active participation of the community, LGUs, and other cooperating agencies in promoting the application of HI. scalar sea ranching technology, 4. To adopt sea ranching technology of sea courabner a alternative source of welfbood for the community, and 3. To facilitate policy and legal support from LGU for the production of sea courabner should through sear anching.	L Produced sea recumber (Pt. sotan) using sea ranching technology under 5ts. Terass, i.e. Unions condition of about 2,600 p.c.42. Provided starters levelhood to 20 Douseholds in growing of sea coumber through sea ranching technology; 3. Produced good quality dried H, souther 4. Established community and regist pappor from the Ecil (Ps. statishable sea coumber production through sea ranching technology; 5. Trained 20 sea coumber growers and producers in 5to. Torass, a birtier, 5 sea coumber devie extend p. MATE; and 7. Enforcement of 8TAR Administrative Circular No. 248, series of 2013 re: site regulation for sea coumber 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)	5&T Community-Based Farm (STCBF) on Improved integrated Copy Management Particles (ICMP) for Cacao Rehabilitation in the City of Mati, Davao Oriental	Rapid, inclusive and sustained economic growth	Generally, the project aims to rehabilitate the old and upproductive cases farms of some selected ARIS and upscale their productively through STGH that will showcare their improve integrated copy management practices (ICMP) in rehabilitating did cases plantations. Specific Objectives: 1. Transfer knowledge and statists 1.5 selected ARIS copyrations the improve integrated copy management practices (ICMP) in 1.6 kg to 1.5 kg copyrate (ICMP) in 1.6 kg to 1.5 kg copyrate (ICMP) in 1.6 kg to 1.6 kg copyrate (ICMP) in 1.6 kg per tree per ver. 2. Establish nor (11 cases narreer) (ICM) sin. with a capacity of 5,000 seedling and will be producing high yelding recommended drose namely U.S. pp. 62.123, W 1.0 ml establish 1.7 ha buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year); a buld wood garden/scne growe (1.000 plants capacity and can produce 50,000 sions after 1 year).	Trained at least 15 ARB Emmer cooperators on ICARP and rehabilisated at least 15 hectares of their old and unproductive caso farms. a Fertilized desting occas trees (17-13) b. Intellade desting occas trees (17-13) c. Intellade desting occas trees (17-13) d. Cleaned and maintained caso felds using provided tools (17-13) d. Cleaned and maintained caso felds using provided tools (17-13) d. Cleaned and maintained caso felds using provided tools (17-13) d. Cleaned and maintained caso felds using provided tools (17-13) d. Cleaned and maintained caso felds using provided tools (17-13) d. Cleaned and maintained (17-14) p. FELT21) to be used in rebublishing old caso farms of the cooperators and other adopters. a Established 300 gram using prove / fuderood garden (50,000 actions per year) at ODCST demo farm (17) and maintained (17-12) 3. Enhanced the capability of the cooperators in producing high quality caso beans that can pass both local and export standards a. Conducted Farmers Field Day (17) d. Processed high quality caso bearen (12-17) b. Provided and distributed copies of contracting from the processing (17-18) b. Provided farmers with continued capability halileng (18-organization devt, micro-financing, 8. enterprise devil based on sustainability from an export processing (19) b. Prince or processing (19) c. Delibered Caso Rehab & Processing Manual (19)	DOSCST	Cacao Farmen / Agrarian Reform beneficiaries	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	i the Oyster Crassostrea iredalei	Rapid, inclusive and sustained economic growth	To establish management techniques for Cassostrea iredalei broodstock that can produce larvae of high subbility and high meat quality	Best conditioning subsymmetric for broadcasch management Coplimum emvirormental conditions and set dief for broadcask 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 in Nursery Rearing Techniques for Crassostrea iredalei to Produce Quality Seeds	Rapid, inclusive and sustained economic growth	To verify and refine the opster hatchery technologies of other Southeast Asian countries in Philippines setting to produce a stable, sufficient, and good quality seed stocks of C. iredalei	Most efficient spawning technique Sustable microglad diet and optimum stocking density Sustable 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
Program A. Development of Broodstock and Hatchery Technologies for the Tropical Oyster Crassosrea inedale (Faustino, 1932) in the Philippines	Project 3. Genetic Characterization and Selective 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	D. Optimization of DNA extraction protocol Cenomic DNA extraction (mantles [gls and gonads) Purity estimation through spectrophotometry PCR protocol optimization for gene-nuclear DNA and microsatellite markers	UPV	Bivalve researchers, aquaculture sector	01-Apr-14	31-Mar-17	ONGOING	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 histohery technology of green mussels by focusing on (a) broadstock maintenance and spawning, (b) land remign, and (c) seed production, improve general and survival of histohery-produced seeds. Mass produce seeds for improvement of mussel population, and for possible expansion of culture areas.	A refined tethnology for brondstock maintenance and spawning, lurval and spat rearing and may production of seeds of the green muscle from a risks with 60 to 80% survival of refinited edges to D-shaped larvae; 50 to 60% survival from hatching to oned stage/prodivelger stage; 5% survival from hatching to onely spat stage or stelling stage; Reliable source of good quality and year round availability of seeds for stocking to improve production; 54 particulation of > 5 for persy intachery facilities that will be used by the institute for further research or for facilities for hatchery training.	UPV	The musel industry will benefit from this study as supply of seed stocks will be continuously 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 term goal of the project is to secure a reliable upply of hardway produced sends to sugment unsusted production. Specifically it aims to determine ustable size and tendinage of transport of the green muss to remote setting area; to develop techniques for holding lavae to 'seed' size (up to 3 months add) in the nursery prior to deploying to seeding area; to evaluate efficiency and effectiveness of different spat callectors 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 sunviolantae of 70-90N spats from set size point to seeding to yow out farm 4. Technology of holding spat in the nurse y prior to seeding them to grow-out farms with 60 to 80% sanvial up to 40mm. 5. One or two nursery stations will established in selected areas either in Negros (Pringaran), or Capic Poivian or Rosas City) or Samar (Siabong) for spats produced by the project for seed dispersal.	UPV	Seordicates include musual farmer, entrepreneurs, vendors, middlemans, prosess, researchen, technicians/extensionists, policy makers and consumers.		30-Sep-17		6,486,093	916,792
Program A. Enhancement of Hatchery and Mursery 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 molecular markers to identify and characterize muscle population at different size, identify, a region of performance traits in different muscle population at different is associated markers and to utilize these markers for broodstock selection, establishment of broodstock population to be used in selective be breeding program and to track outcomes of the selective breeding program using molecular markers.	1. Specific mulerotide sequences as markers associated with specific mused populations C2. Genetic profile applerormance traits of mused population afforest inter. 3. Criteria for selection of broodstock and molecular markers for parentage analysis and tracking of families in breefing program. 4. Offisprings of cross-bred organisms with specific molecular markers 5. Parentage and offispring analysis	UPV	Beneficiaries include mussel farmen, entrepreneurs, vendon, 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)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Cost	2017 PCAARRD GIA
Program 8. 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 oysters and their culture environments specifically, this stopping aims to 13 quantify the bacterial densities especially colliform, Escherichia coli, and pathogenic vibio spp. in oysters (fleels) and their culture or environments (useria and sediments). 23 identify the taxonomic position (genus/ sporcia level) of solisted bacteria; 30 quality the level of heavy restable, 17th, 47th, 50 and 50 pit and perticular environments (easter and sediments). 5. Classify sharting validity of all culture less examined in acconface with LU shellish havesting area dissification criteria; and 60 pitchibitish effects and paractical depuration procedures in conjunction with the clearance rates of pathogenic bacteria, Newy metals and pesticide residues from oysters' bissues	S. Smitzer quality of poyters and their culture Statesfield load Intering water & option* meast Option from the poyter's meast Option from the poyter of	SEAFDEC	Aguardure industry and stakeholders -increased production other refining estimate sectinises will benefit opter fames and help the country's aquaculture industry Government agencies and NGOs -refined culture techniques may be promoted by government quality of the country of the country of culture of oyste	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	This project alms to increase slipper oyster production through refinement of grow-out culture technologies Scientifically, this study will: 1) determine the most efficient culture system for slipper oyster 2) determine the most withde size for rownine ovster 2) determine the most suitable size for rownine ovster.	Most efficient culture system established See requirements for oyster farming established Growth and sunvolor lowel and harbony produced spats Best practices for oyster 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
		growth	3) compare growth and survival of wild and hatchery-produced spats (will be obtained from the hatchery under another Program reared in the natural emicropment								
Program 8. Increasing Production and Improving Quality of Oyster 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	Determine the effectiveness of rail and longitive method and different spat collections forgrowing of oysters; Determine the density of spat settlement on oyster shells as collection materials at spawning seasons; Determine the effectiveness of rail and longitive method as grow-out culture technique; growing transplanted oyster spats from oyster shells as collection materials; Conduct cost benefit analysis for rail and longitive method of oyster farming using shells as collection materials at different study sites; and Develop an effective protocol in transporting and transplanting oyster broodslocks and spats to grow-out culture.	Effectiveness of raft and long line method protocol Most efficient substrate materials for spat collection	SSU	Aquaculture industry and stakeholders -identification of stable sites and dissolitation of all cryster grow- out culture sites, and establishment of depuration procedures thereby gooding operates after for human consumption will not only benefit opster fames but importantly help for country's aquaculture industry. Government agencies and NGOs involving systems and effective post-section of stables for permoted by government agencies and NGOs to stakeholders -industrial systems and NGOs to stakeholders -industrial stable size as prompted by government agencies and NGOs to stakeholders -industrial stable size as prompted by government and NGOs to stakeholders -industrial state of the size of the	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 muscle growing sites; Stabilish the stocking density for brooksicks and spash that the visible for transplanting: Document growth and survival of transplanted broodstock and spats; improve existing method for spatfall prediction; and Develop more efficient spat collectors	Detailed characterization of suitable sites for muses cluture. Protocol for transporting and transplanting muses broodstock and specis. More efficients condictions (From 2-10 spat/10 cm2 to 2 – 5 spats/10 cm2; Spatfall prediction model; Manual for site selection, transport and transplantation of mussel broodstock 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 crab defects. We muscle emacation, weight loss, ammonisc	Multi carb handling, storage and transport conditions in trading centers/condigation in various stance in the country documental and appropriate handling and transport methods recommended; 3 Methods for the detection and prevention of muscle emackation or happs' including the time until significant weight to so count feed field of 2 Success and methods to prevent amendicated does durings in flavor developed; 32 Prototype boxes for built handling and retail developed; and 3 Code of practice for the handling, storage and transport of crabs prepared	UPV	Taget beneficiaries are the Not crab formers, 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 project aims to plot test the protocols in relaying and depuration of musculs in other culture areas: in the country and strain, concludion. It items to improve the developed protocols for the elimination of microbial content for safe and high quality Philippine gene muscles (Pema virids). Societically, it intends to obe felicitions; I collasse the performance of relaying protocols at different conditions of muscle growing areas? Evaluate the performance of depuration facility at plot scale (80, 100 and 120 is given per tank). 3. Determine the economic viability (including social acceptability) of using refined relaying and depuration technologies 4. Develop a generic HACCP-based muscled depuration quality assurance program.	Vesr 1 1. Refined relaying protocols. Vesr 2 2. Table on relaying time based on bacterial load in muscal meat 2. Refined depuration protocols. Visit 2. Table on relaying time based on bacterial load in muscal meat 2. Refined depuration protocols. Ling the configuration of the control o	UPV	boreficiate include musel farmer, entreprenous, vendonts, and diemas, processors, researcher, technicary/etersionation, policy makers, shellfish processors-exporten, and the consuming public	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 validate the thisning and gruining techniques of durinin for optimum yield and quality of durins. Specific. 1. To determine the best and appropriate thinning and pruning techniques of different varieties of durins; 2. To determine the commit benefits of pruning and flower-fruit thinning in durian; 3. To determine the peak of production of different durian varieties, and; 4. To determine the quality characteristics of different durian	1. Opiniment find production through application of technology on the proper and proprietic cultural management on pruning, deteoping, flower and finit thinning for opinimum production of quality durinf mithin for obments and export market, as well as on height and fruiting branches. 2. Extended havesing season by two months 3. Increased yield by 20% and improved quality of fruits.	BPI-DNCRDPSC	Commercial devine growers Commercial devine growers Commit value devine framers Farm Contractors Kenderdevine framers Research institutions Research Research Colors Research Research Research Research Research	01-Oct-17	30-Sep-19	NEW	4,812,643	2,591,322
Regional Durian 18,0 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	General: Improve the vivid and quality of fresh durium in Southern Mindinana through of the use of a fertilization guide developed based on the optimum nutrient standards. 1. Validates across location the formulated fertilizer recommendation in outrain derived from the established leaf recommendation in outrain derived from the established leaf recommendation of unitrial to the established leaf recommendation of unitrial in substitute of the established leaf recommendation of unitrial in Southern Philippines, and; 3. Generate a Gill Soided oil substitute (substitution for durian in Southern Philippines, and;	I. Increased yield and improved durius fruit quality. Cyplimum fertilities recommendation for durium based on leaf analysis validated and verified, and; 3. Giś-aided uitability maps for durium in Davao and Cotabato provinces.	USM, USeP, BPI- DNCRDPSC	Commencial durium growers Commit Scale durium famens A Farm Contractors A Farm Contractors Security Contractors Research institutions Research institutions Researchers Parameters Parameters	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	Decign implement and evaluate the communication interventions for the promotion and commercialization of jackfruit technologies and products.	Information on the needs (moveledge and practice gaps) and attitude of jackfruit farmers and processor retriated to jackfruit production and post-production technologies as an extpact of the surveys and #20. Froduced, pretested and fine-tuned IEC materials on jackfruit production and post-production extendedges developed by WCARP and #800EN. BICC materials (print, video, radio spots), et.) disseminated, trainings and special events conducted (e.g. pinala- malaki, matamis, maraming pulp, etc.) contest, etc. MSC storles and impact indicators	VSU	Jackfielt 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 plantlets of Tail and Dwarf coconut varieties through CSet for Batangas and Quezon	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass procapages planule derived convex glanting materials, primarily to establish new planting in coastal cones and replant the hybrox-dranged, and corona sclae inter-interest plants. It also aims to advance the agricultural biotechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CICY Mesitor's protocol for in vitro culture of coconut using smalls; embryogenesis. Identified high yielding Tall & Deard rocomut vanetiest/hybrids responsive to the protocol. Tassus culture liberatory upgraded and equipped for effective mass propagation of high yielding coconut varieties./hybrids.	UPLB	Smallhold cocount growers who are dependent on coconust 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)	Description of Program/Project/Objectives	Expected Output/Target	Implementing Agency	Beneficiaries	Start	End	Status	Cost	2017 PCAARRD GIA
Reinvigorating the Philippine Coconut Industry through Coconut Somatic Embryogenesis Technology	Project 1b. Mass propagation and pilot utilization of plumule-derived plantlets 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 prospage plumule derived coconut planting materials primarily to establish new planting in costal size and replant the bybond-imaged, and coconut scale insect-infected palms. It also aims to advance the agricultural biotechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	I fechnology transfer & adoption of CIC's Mexics's protocol for in vitro culture of coconut using small cembrogenesis. But of the common state of	UPLB	Smallhold cocoust growers who are dependent on cocoust 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 plantiets of Tall and Dwarf coconut varieties through CSet for Region VI, VII, and VIII	Poverty n reduction and empowerment of the poor and vulnerable	The project aims to mass procapages plumble devived concurs glanting materials primarily to establish new planting in constalt news and replant the hybron-dranged, and corona scale most—interest plants, it also aims to advance the agricultural biotechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CICY-Mexico's protocol for in vitro culture of coconut using somatic embryagenesis. In a construction of the control of t	VSU	Smallhold cocoust growers who are dependent on coconust farming as their inveltihood.	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 plantiets of Tall and Dwarf cocomut varieties through CSet for Davao Oriental and Davao del Norte	Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass procapage plumake derived concurs glanting materials primarily to establish new planting in coastal rose and replant the bylonov-changed, and concurs acle inters-intered palms. It also aims to solvence the agricultural biotechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CICY-Mexico's protocol for in vitro culture of coconut using somatic embryagenesis. In a construction of the control of t	UPM	Smalthold record growers who are dependent on occanut farming as their livelihood.	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 plumul derived plantlets of Tall and Dwarf coconut varieties through CSet for Albay, Camarines Sur, and Masbate	e-Poverty reduction and empowerment of the poor and vulnerable	The project aims to mass prospages plumule derived concern glanting materials primarily to establish now planting in costable, now and replant the hybron-changed, and concorn scle interci-infected palms. It also aims to advance the agricultural biotechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CICY-Mexico's protocol for in vitro culture of coconut using countie embryagenesis. Indemtified, high yielding: Tall & Deard recornut varieties/hybrids responsive to the protocol. Tabus culture liborativo upgraded and equipped for effective mass propagation of high yielding coconut varieties/hybrids.	PCA-Albay	Smallhold rocoust growers who are dependent on coconust 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 S. Mass propagation and pilot utilization of plumul derived plantlets of Tall and Dwarf coconut varieties through Cset for Camarines Norte, Catanduanes and Sorsogon	e-Poverty reduction and empowerment of the poor and vulnerable	The project dans to make processed plannink-disched coccord planting materials primarily to establish new planting in constant less and replant the hybron-demagned, and cocord scale insect: infested plans, it also also to disched the planting materials of the Philippines on the replit mass propagation of coconut planting materials	Technology transfer & adoption of CICY-Mexical's protocol for in vitro culture of coconut using namels; embryagenistic production of committee the production of the committee the control of the committee that the committee of the protocol Taxus culture bloomly upgraded and equipped for effective mass propagation of high yielding coconut varieties/hybrids	BU	Smallhold occount growers who are dependent on occount farming as their helihood.	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 plumuli derived plantlets of Tall and Dwarf coconut varieties through CSet for Zamboanga del Norte, ARMM and Region XII	reduction and	The project aims to mass procapages planule delived concurs planting materials primarily to establish new planting inconstals to ease and replant the hybron-changed, and consort scle incert-interest plants. It also aims to advance the agricultural biorechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CICY-Mexico's protocol for in vitro culture of coconut using somulac embruggenesis. In a construction of the control of t	PCA	Smallhold cocoust growers who are dependent on cocoust 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 procapage planule devived concurs planting materials primarily to establish new planting in constalt news and replant the hybron-changed, and consort scale most-intested palms it also aims to advance the agricultural biorechnology capability in the Philippines on the rapid mass propagation of coconut planting materials	Technology transfer & adoption of CICY-Mexico's protocol for in vitro culture of coconut using sumula: embryagenesis in Search (embryagenesis) and committee of the committee of the protocol Table culture bloodway upgraded and equipped for effective mass propagation of high yielding coconut varieties/hybrids	PCA	Smallhold cocoust growers who are dependent on cocoust farming as their inellhood.	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 Assess the role of cooperatives in technology adoption for improved production and market efficiency in manage, coffice and banana Specific Objectives. A Determine whether cooperatives as organization enhance technology adoption; A datess the effectiveness of cooperative as platform for introduction and technology transfer in the rural C. Determine whether embenship in cooperatives results in improved production and marketing efficiency of a Stability the puthway by which cooperatives affected production and market efficiency and e. Provide specific recommendations on how cooperatives can enhance technology adoption	Technical bulletins * 1 Journal article Cooperatives One (1) Policy brief	UPLB	Decision-makers at PCAARRD, DOST; Grantees of PCAARRD/DOST funding	01-Aug-17	31-Jul-18	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 Asses the rolle of cooperatives in technology adoption for improved production and market efficiency in magnetic contents of the cooperatives and the cooperatives of the cooperatives as organization enhance technology adoption; A Determine whether cooperative as organization enhance technology adoption; A cooperative of the cooperative as platform for innovation and technology transfer in the rural areas; C. Determine whether membership in cooperatives results in improved production and marketing efficiency; disclaims of the cooperatives are platform for innovation and market efficiency; and a. Provide specific recommendations on how cooperatives can enhance technology adoption	Technical bulletins * 1 Journal article Cooperatives One (1) Policy brief	UPLB	Decision-makers at PCAARID, DOST; Grantees of PCAARID, DOST funding	01-Aug-17	31-Jul-18	NEW	2,469,158	2,469,158
S&T-BASED SWEETPOTATO VALUE CHAIN DEVELOPMENT FOR FOOD IN TARLAC, ALBAY, AND TYPHOON VOLANDA-AFFECTED AREAS IN LEYTE AND SAMAR	Program Management and Coordination (PMC)	Poverty reduction and empowerment of the poor and vulnerable	he component aims to continue all the monitoring and evaluation activation of the different project. under the program, relegate the plant, strategies and excomplishment, theil contributes applying of all the necessary information and extension materials, ensure acceptability of all reports (herbical and financial) and dosely coordinate the project leaders and personnel involved for smooth implementation of the program.		VSU	c	01-Jan-16	31-Dec-18	ONGOING	3,043,125	335,293
S&T-BASED SWEETPOTATO VALUE CHAIN DEVELOPMENT FOR FOOD IN TABLAC, 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 more the design and implementation of the \$P solve dain through gen-referenced mapping and scenarios analysis. So in province the solvent for the \$P value that two through continuing Bold for instruction in product too product on produc	At least for (d. 97 food value chains with value chain analysis. Ex least the (3) 57 printies adopted by farmer for our invalue chain. Employment generation in rural communities adopted by farmer for our invalue chain. Employment generation in rural communities increase in 67 area, ca. 300 less 5 freeighend capacities of researchen/Sewordyment workers, farmers, enterpresentes, partners interpul les (1) americ linkerigies, and (4) improved partnerships of suries on beelopment services (500;10). The rather linkerigies and (4) improved partnerships in Suriabilished and (1) bestet and a review set of processing system with fessibility analysis is Knowledge products: IEC materials, VLR guide with VC mapping guide, publications; at least 5 pages 1 5 tabilished and (1) a	VSU	AEEE from Powerhalds (engineers), testappies in urban isotation engaged in our fault angituline) (RE Resentine). Scientis: 84C (EG) and farmers in hydron affected areas in Legita- Samar 84C SP growers in general Micro and unall entreprensus.	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
SST-BASED SWEETPOTATO VALUE CHAIN OPELEOPMENT FOR POOD IN TRAIGL, ABAY, AND TYPHOON YOLANDA-AFFECTED AREAS IN LEYTE AND SAMAR	Project 2. Sweetpotato Value Chain Development for Food in Tartac	Poverty reduction and empowerment of the poor and vulnerable	1. To enhance the 5º value chain and scale out the 5º micro enterprises (wire, pastries/cookes, jum/pilly, nooddles) in Tariac and target equations area. 2. To promote a meterprise culture to farmers, cooperatives and private enterprises for improved productivity and competitiveness.	B At least four (4) 5° food value chains with value chain analysis B At least fee (5) 5° varieties adopted by furmers for une in value chains. Employment generation furnal communities B (increase in 5° area, co. 1000 has B Provided 605 to 5° to 5° value chains B Knowledge products: 5° product flyers, publication; at least 3 papers	Department of Agriculture Regional Field Unit III	ACL Local enterprenents (Samer-Tader-Processors) ACC Faming households (regingles) in production of reseprotato roots and planting materials whose levelihoods are limited by labar-Jaden growing environment, inscribe part and lessenge pressure) ACL Cool organizations, including famous ACC Cool organizations, including the interprets for processing and marketing executions are produced in extension of the production of the prod	01-Jan-16	31-Dec-1	BONGOING	6,531,270	588,670
S&T-BASED SWEETPOTATO VALUE CHAIN DEVELOPMENT FOR FOOD IN TARILAC, AIBAY, AND TYPHOON VOLANDA-AFFECTED AREAS IN LEYTE AND SAMAR	Project 3. Sweetpotato Value Chain Development for Food in Albay	Powerty reduction and empowerment of the poor and vulnerable	1. To enhance the SP value chain for products (freeh based MP products, noother, lar cream, specially breads, pustries) with high potentials for commercialization and access to wider market niche. 2. To strengthen the capacities of SP enterpreneum, and the listages/partnerships with the BDS prooders.	SAI bast four (i) 9° foot value chales with value chain analysis At least the (i) 9° seventies adapted by enrons, for use in value chains. Il Employment generated in rural communities II increase in 9° area, ca. 500 has, ii) Provided 805 to the 5° value chains iii Knowledge products: 9° flyers, publication, at least 3 papers	DA Regional Field Unit V	AC Coal enterpersors (filmer teders processor) ACC Pamilia, boundable (prograps in production of sweptoption roots and patienting materials whose livelihoods are limited by false-fulder graving environment, insect perial and fesses personal AC Local organization (including farmers AC* cooperatives and swinneds* successions) and produced in enterprises for processing and marketing of value-added sweetpotatio productal AC Consumers of quality sweetpotation products; there of changing informs AC Local R. B. D. mittations (Researcher, AC sentists) for new knowledge and linkages AC LOCA.	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	he project aims to develop and acts a patiellic hatcheries in elected glot size of the country. To date, the Philippines has a number of omighted milkful hatcheries in landau, Neapse and Mindean. However, for supply is still not emough to supply the needs of milkful promot ponds, pers and cage, because a lot of surplus aggrounds on the hatcheries per soll officered development of satellite hatcheries is essential to minimize importation of firy from neighboring countries.	Established satellite hatcheries (Luzor 2, Visyes 5, Mindeans D) 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	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 exponence groups and or ? monodon in the country. See that the property of the proper	B results of statistical analysis of morphological/morphometric data from P. monodon samples 3 preliminary list of correlated SNP markers 3 improved reference genome for P. monodon	UPD	thimp farming industry, thrimp export industry			ONGOING	7,514,648	1,368,749
Value Adding and Waste Recovery for Industrial Tree Plantation Species (ITPS): Forest Manotechnology 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 mantechnology possible new products and applications of mancetilulose from solid wood or waste materials derived from 3 iTPs widely planted in the Philippines	Publications - 2 article in Si) journals - 1 technical bullerin - ctations of pere-releved articles project terminal report reminal re	UPLB	Famers planting fast growing timber - Industries in need of raw materials for novel groundstep products - Ownerteem manufacturing enterprises using novel composite materials	15-May-17	7 14-May-1	9 NEW	2,774,840	1,856,543
Value Adding and Waste Recovery for Industrial Tree Plantation Species (ITPS): Forest Nanotechnology 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 cellulois canoncystals step in the production of cellulois canoncystals. Listeat and obstactive lignin from black slapps 2. Modify and characterise the extracted lignin. 3. Produce bio-based plastic using the unmodified and modified lignin in the form of composite film	Publications: Manuscript for publication to SUScopus-indexed journal, Production of information bulletin, Exchincial papers presented in scientific conference of particular papers. Cheep particularly model for filing for the protocol for the production of bioplastic with Particular Suspin Susp	UPLB	Forest-based industries, tree plantation farmers, manufactures of polymers and plantics	15-May-17	7 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 doubt standards (IOB (ITME) estaticide Management and Montroining 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 cluster percolucing selected vegetables to address foods affety concerns.	In-Albestand Ja Article should prestricted residues 2) Article should prestricted residues 2) Article should safe pesticide management 3) ING protocol Places and Partnerships 1 Partnerships with the LUU, barangay officials 2) Increased consumer awareness on safe vegetables 2) Increased consumer awareness on safe vegetables 3) Adexprise of KS in the formulation of focal policy for safe vegetable production 3) Adexprise in multiple officiance for the gromotion of safe vegetable production and sustainability program to ensure long-term adoption Product 3) Telestood Management Plan for selected vegetables 2) Internal Cantrol System (KS) for conventional vegetable production	UPLB	Farmers, consumers, and other stakeholders	01-Oct-17	7 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 (old Trite-Project 2. Profitability assessment of adopting an internal control system (iCS) in the production and marketing of fresh and safe vegetables)	sustained	It 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-Traceability system for conventionally-produced safe vegetables; 2-Traceability system for the same and takets; 2-Traceability system for the same and takets; 2-Traceability system for conventionally produced safe vegetables; 2-Traceability system for the same and takets; 2-Traceability system for conventionally system for the same and takets; 2-Traceability system for conventionally system for the same and takets; 2-Traceability system for conventionally system for the system for the same and takets; 2-Traceability system for conventionally system for the sys	UPLB	Vegetable farmen, farmer organizations, potential entrepreneurs, segetable consumers, policy and decision makers, technology adoptics, portential investors and regulatory organizations and industry association.	01-Oct-17	7 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 crait hatchery/nursery system to produce and maintain a reliable supply of mud crait seedstock in Alaminos, Pangasinan and 3 nearby provinces.	1. Established one commercial multi crab hatchen/murray facility in Alaminos, Pragasiana. 2. Trained five (15) policy staff from F53 and GAJ Adminion on the technology of refined commercial scale multi-crab hatchen/murray system 3. Forget MOA with GIU Alaminos, Peraganiana. 4. Producted 40,000 Gallyr crablets per year for musray and grow one ponds using the technology 5. Producted and printed at least 500 copies of life materials on multi-crab production of the children of the commercial	PSU	The primary target beneficiary of the project is the local preventment of Aliamon, Pagasirian. 13 The secondary beneficiaries are growers (grow-out and ponel) in costal towns and cities of Paragazian and nearly provinces file La secondary beneficiaries are growers (grow out and ponel) and the virtual primary in the local mud crisi industry including potential adoptor-habitory operatory/owners (private & government cownel), feed milling, and researchers who can use the results as basis for further study on mud crab.	01-Aug-15	31-Jul-17	ONGOING	3,611,878	1,289,845
	Advanced Evaluation of Abaca Hybrids with High Fiber Yield 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 fixers for pigli and apper 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 trans abaca there congenized and order abaca farmers on proper abaca production, fertilization, 4. To develop, produce and discerninate information, education and communication (IEC) materials and conduct promotional activities for abaca farmers and other stakeholders.	1. Production and distribution of 10,000 abox seedlings in 2 hectares plantation in each of the 3 porticipating municipating of Caradanaese province (Y1) 2. Establish 2-hectare abox plantation (Y1) 3. Establish 2-hectare abox plantation (Y1) 5. Fifteen farmer 5-cooperators and as less 100 abox farmers trained for abox production, fertilization, fiber harvesting, grading and bailing (Y4) 6. Previoleged (Er carrieris) (200 leaflest, 200 broducts, 2 video recordings) and conducted promotional activities (Y4) 5. One publication in referred journals (Y4)	UPLB, CatSU	Abasa Ramera Zasakehidos Abasa 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 storhiopies on the text use of available genetic base of any plantation species. Parametrized Rotatria (Ω), Notices, and Genetica advance Rota, in order to achieve a 20% increase in yield from plantations from the current 2013 yield level which is approximately 60 cs m he 1.	A. Plantation trials of various genetic materials/provenances (origins) of fiscita and yenane (5.10 d.s.). a Information on genetic dismits and structure of valonic provenances for original) of faculta and yennane C. Teams of trained tree improvement technicians (240) to accomplish the long-term goal/objectives to support the country's wood industry.	CMU, 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	Assest crop hether design for improved durability and functionality suitable for specific highland crops and conditions, monton temperature & humidity variations mided and routs the troop bether over the growing seasons, evaluate the effect of shading on crop water requirements, evaluate the performance of lifts, under diff, under deceiving mat is, in protected environment; plot test developed prototype under actual field conditions.	Year J. Enatures/Characteristics of local generhouses/forgo heletar currently used in roop production. B Produces of improved on poleters based on one roughlements and farmers' preferences. Il information on the degree of climate regulation achieved with different clading presented its Il improved care pheter design in term of structural strength and functionality for specific crops IE evaluated performance for 1st cropping season or selected light-value crops under different surface covering materials in a protected environment. Year J. E sivulated effect of shading on crop water requirements IE evaluated performance of HVCs grown under different structure-local central criminates during the 2nd cropping season II Identified structures best suited for letture and broccol. If a recommendation of the control of	BSU	farmers involved in HVC, production and who are willing to engage fail for the production of the second of the sec	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	is general, this proposed project sayers to test and validate the artificial incentination (All sterbinding) as a color in enhancing the reproductive efficiency of Philippine native foliases and develop emporersing and All protocols that would match the native chicken breeding and farm management practices in the country. Specifically the proposed project isms too Schanciter the externor Orange and Zampen rocoters. Determine the effect of same processing and short-term preservation on the fertilizing capacity of Dange and Zampen rocoters' emms. Assess the All procolor for chicken on place and Zampen here. It calculates the fertility and hatto-ballity of Dange and Zampen eggs fertilized this All. It saliculate the excession of the processing and processing and processing and processing concentrations of the processing and processing and processing and processing concentrations.	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	wvsu, wwsu	leathstroot 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 sechnology for the swise and posityly industries in the Philippines. 2. Decument be stated of the act of the study that tunnel vent technology in the Philippines and already. 2. Document the extent of adoption of tunnel vent technology in the Philippines including practices of the neutral positions. 3. Determine the effect of the technology in the technical performance and efficiency of swine and poultry production; 4. Assess the financial viability of the tunnel vent technology in wive and poultry production; 5. Estimate the environmental binerities and costs associated with the tunnel vent technology and 6. Determine the groupects for a more widespread use of the technology in the Philippines	Year 1.5 State-of-the-art analysis on the existing turned vent technology in the Philippines so been climate with abroad in terms of designs, costing, costinuation, adoption, extra solution of the philippines to allow maximization and cost-savings. At least 2 journal articles for publication in ISI journals.	UPLB	Seine and Poultry industry operation in the Philippines Government regulators such as Department of Agriculture (DA) and the Department of Environment and Natural Resources (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	Locument and validate the regots of accomplishments of the projects in their respective areas 2. Assess the performance of the projects towards their set goals for the forestor sector 3. Determine the environmental social and economic impacts of the projects 4. Recommend measures with the performance of the projects that can be harmessed to secure sostal-nability with respect to said goals for the forestry sector of CARAGA Region	a. Documentation of the activities from the conceptualisation and implementation of the program; b. Documentation of the imput, output, and outcomes of the program; c. Documentation of the imput, pathway and level of adaption; d. Data on adaption rate or growth rates in the number of adaption; any eyear; e. Neasurement of the program; s. consume, colid, and evironmental impacts. E. Estimation of the account returns from project investments, and g. Policy recommendations for the enhancement of the adaption of technology generated to further develop the ITP floating.	CarSU	The beneficiaries of the program would include (a) policy and decision makers, national R&O/S&T system and the finding agencies supporting R&D activities; and (b) researches who are directly involved in technology transfer/extension 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. Compenhensive and in-depth understanding of the livelihood systems and level of dependency of communities on the late; I. Implications of various resource use and management options determined; I. Importance of auxocutive activities and efficiency of operations determined; 4. Set of specific policy recommendations	UPLB	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 Vield 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 nubber grown in non-traditional areas in support to the envisioned nubber development and expansion initiatives of the Philippine Rubber Industry Roadmap	Publications (No. of agents published/peer reviewed and LIC materials, clations) information bulled not the [1] manuscrift publication to Si/Spicunidened journal (1); Technical papers presented in scientific conference (2); Manual/CAP production guide for rubber in NTAC (1). People services (8 of MS and PhD graduated, 8 of trained personnel, value of public service contributed) involvement of troject Staff as repoure and experience in the conduct a collaborative of the study; 12 hOh) MS (with septoms or on subservement) 4 MS/Trained personnel (project staff 2 as Agriculture (with experience on rubber research) 4 MS/Trained personnel (project staff 2 as Agriculture) (with experience on rubber research) 4 MS/Trained personnel (project staff 2 as Agriculture) (with experience on rubber research) 4 MS/Trained personnel (project staff 2 as Agriculture) (with experience on rubber research) 4 MS/Trained personnel (project staff 2 as Agriculture) (with experience on rubber research) 4 MS/Trained personnel (project staff 2 as Agriculture) (with experience on rubber research) 4 MS/Trained personnel (project staff 2 as Agriculture) (with experience on rubber research) 4 MS/Trained personnel (project staff 2 as Patrices Advocacy on the recommended GAP (including recommended clones, etc) for rubber patrice of the MS/Trained (project staff) (project	DA-RFO 9 ZAMPIARC	Bubber stakeholders, 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 B&D on Organic Vegetables on the various stateholders involved in the production of organic vegetables ended, fertilizers and pesticides and firesh 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 Albey	Rapid, inclusive and sustained economic growth	The general objective of the project is to rehabilitate the vulnerable segments of the Quirall "A" Sub- Watersheld through the SAFE project. 1. To reassess the vulnerable river/streams banks; 2. To modificiate the GIOL Data and Data trave the direct stakeholders of the Quiralli "A" Sub-Watershed 2. To modificiate the GIOL Data and Data trave the direct stakeholders of the Quiralli "A" Sub-Watershed 3. To produce bankous seedings and other appropriate planning materials for stabilizing the river/stream banks; 4. To establish the bankous governers and ensure its maintenance beyond the project. 5. To merge an alliance of stakeholders for policy directions towards sustainability of the project. 6. To produce IEC materials as part of an awareness and advocacy campaign.	VEAR ONE: 1. Reassessment of the river vulnerable river/streams banks; producing maps and proper documentation; 2. MoAs forgod between and among concerned stakeholders; 3. Action plans of the respective CLOJ, including policy darfs; 4. Action plans of the respective CLOJ, including policy darfs; 6. Action plans of the respective CLOJ, including policy darfs; 6. EC commission process stabilished, protected and maintained; 6. EC commission process stabilished, protected and maintained; 6. EC commission process stabilished, protected and maintained; 7. EC materials published and distributed. VEAR TWO: 1. Municipal ordinances to directly support the project; 2. 4. disdictional bandson nurseries stabilished at LGU site; 1. 3. 100 bandsong process stabilished, protected and maintained; 4. EC materials published and distributed. VEAR TWEE: 1. 2. additional bandson nurseries stabilished at other LGU sites; 2. Additional 100 km bamboo grooves stabilished, protected and maintained.— for a total of 210 km;	BUCAF	The target beneficiaries of the project are basicially the stakeholders of the Calcius of the Six LOSU that where their respective production of the Calcius A zub-waterhed, namely, the municipalities of Camiliag. Gamodatus, na.9s, Relingui, Libon and the City of Lipon. In totality, the Quintil A sub-waterhed has about 310 billiometers 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.) (Chelisochidea, Dermaptera) in S&T Community-Based Farm in Nagcarlan, Laguna	Rapid, inclusive and sustained economic growth	General: To showcase the effectiveness of S&T interventions in increasing the productivity and income of farmers in Nagcarfan, Laguna. Specific 1. to upucale adoption of the recommended technologies such as the use of biological control agent, e.g. C morio, https://dec.doi.org/10.0000/10.00000/10.000000000000000000	coconut growers in Nagcarlan, Laguna 3. 30 rearing sets-up in coconut farms in Barangay Lawaguin, Nagcarlan, Laguna 4. Proper monitoring of CBM and CLB, release of BCAs (e.g. C. morio) and evaluation of released predator adopted by farmer respondents 5. Baseline data generated as	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 Soft Rot Disease of High Yalue 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 eligibilities of this project is to explore the potential of bacteriophages as biological control agents for soft not disease in high value vegetable open from various program environments in the Philippines. The proposed research sims to 1 assess the diversity of soft-vox causing bacterial strains and their associated phages; if determine they fact which yell these associated phage against a separum of soft not associated metrobacteriscese, and (ii) ii) assess the bio efficacy of the isolated bacteriophages in greenhouse and confined plots	2. At least two (2) publications in IS-indexed journal 2. Baseline data on the diversity of bacterial pathogens associated with soft rot of high value vegrables in the Philippines 3. Baseline data on the diversity and specificity of bacteriophages associated with soft rot forterobacterioaces in the Philippines 4. Trained manpower in the form of students BS (2 BS Agriculture – Plant Pathology, 2 BS Agricultural Biochenhology, 2 BS Biology—Microbiology) and 2 MS (Phant Pathology, Microbiology) and their thesis research supported by the project 5. Upgraded 5 laboratory for teaching, research and extension through equipment acquisition and research callaborations	UPLB	Researches will benefit from the generated scientific information about the potential obstance/pulsage as located against against soft rot diseases of high value vegetables in the Philippines of Covernment extension agencies IGA, 50/01 will benefit from the gained scientific information for the management of oil not diseases in vegetables. Soudents 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 coconut areas infested by CSI for continuous productively and income degate the losses brought by the infestations.	People and Services: a 1.00 oxonut farmers and 10.00 personnel trained b. 10 trainings conducted: 5 Blocon libotomisty norm - 2 for Parasitotis and 3 for the Predistor Blocon lab with 6 external for cugs. Celebrate 10 oxonut of the Predistor Blocon lab with 6 external for cugs. Celebrate 10 oxonut of the Predistor Blocon lab with 6 external for cugs. Celebrate 10 oxonut of the Predistor Blocon Celebrate 10 oxonut of the Celebrate 10 oxonut oxon	MSU- Maguindanao	brmes	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 nubber latex harvest and cup lump yield through capability building of 500 famers and 700 full technical rejectorisations from the 5 major nubber producing provinces of the Philippines, Sepcific 1) to provider trainer from tigo 700 trainer-larges from the 7 major rubber producing provinces of the Philippines. 3) To train additional 500 competent famer-largers from the 7 major rubber producing provinces of the Philippines for two years, 31 of develop pretined (E materials on the documented best practices of rubber latex harvesting, coagulation and handling.	Pear 1 8 300 additional tappers (230 farmer-tappers and 70 faither tappens) from Zamboanga Slougey, Agusan del Sur, Korth Citotakor, Zamboanga del Morte, Basilan, Bukidona and Laguna, trailend et al maximum of 30 participates per training in 11 sening sessions (Year 2 32 70 additional farmer-tappers from Zamboanga Slougey, Basilan and Laguna, trained at a maximum of 30 participates per training in 2 training sessions 3 Print EC materials on best practices rubber later harverling, coagulation and handling in English, Filipino, longo and Cebusano at 1,000 copies per version	FPRDI	About \$70 households from the 7 top nabber-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	Provide training and capacity building on coral taxonomy and the conduct of full reef assessments and monthing methods; Unique and upgrade the existing reference collections (for specimens of coral skeletors) 3. Complete the Red List of Philippine corals for the implementation of relevant provisions under RA 10654.	Training modules Updated Connuma yo website Bettornic Hed guides on 9 families Rethronic Ked guides on 9 families Rethronic Connumay website Refines Survey manual and protocol booklet for reef assessments Potters Tyuney manual and protocol booklet for reef assessments Potters	DLSU	Beneficiaries include primarily those involved in assessments and monitoring of coral reefs 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 neurones of entons, stateholders on the publish of constal entons. 2. To rehender Neurone (see, neurones and entons) 2. To rehender Neurone (see, neurones and entons) 4. To rehender Neurones of suppropriete communication, education and public awareness materials for specific target audiences; 3. To review existing policies related to coastal ensister; and, 4. To identify policy gaps and recommend new policies for coastal ensister management	B. Bad tils of Bibliotiss coopis and authorification saids for these species see of the project Outputscers, models grimes, teaching materials) - Capacitated terriary teachers (members of the PCAABRO Consortia and other SUCs) - Policy recommendations for coastal management that PCAABRO can advocate before a legislate tooly - Veriary teachers of the PCAABRO can advocate before a legislate body - Veriary teachers of the PCAABRO can advocate before a Policy Recommendation for PAABRO can advocate before a legislate body - Veriary teachers of the PCAABRO can advocate before a Policy Receive - *Training* - *Training* - *Training* - *Training* - *Training* - *Project period CIPA materials - *Final drafts of CIPA materials	UPD	Terriery teachers and students, MGA, LGDs, DRRRM practitioners, assisteholders, coastal residents, PCA4680	15-Sep-16	14-Sep-18	ONGOING	4,999,357	1,464,896
	Coconut-Based Intercropping with Banana and Corn as Uveilhood Options for Communities in Brgy Camansilay, Tacloban, Leyte: An S&T Community-Based Farm (STCBF) Approach	Rapid, inclusive and sustained economic growth	General: To Improve the scote consonic conditions of the hydroconflected spland communities of Barrangs/Camsanity, Tacloban Layle through adoption of diversified communities of sand invelloped options. Specific objectives: a) To increase income of the upland communities of Barrangs/Camsanithy; b) To promote adoption of concord based desembled invelloped communities of Barrangs/Camsanithy; b) To promote adoption of concord based desembled invelloped options farming system to increase income; c) To enhance capabilities control to the control options of the control options of the control options of the control options of address of communities to engage in community-based diversified farming systems.	A hi least 7s firmen trained on coconucle based driversified farming schnologies; If Stabilihed 1 coconut mursury producing blook 4000 quildy coconut seeding to cert to a round 3-5 on hectaes of occonut farms in Fastern Visiyas; If Stabilihed a small scale communal organic fertilizen/permical scaling; If a Anusuf 15 ordans enhabilitated using the occonucle based farming systems (occonut-banna and occonut-comi); and 3l increased income among occonut farmers by 20%-50% from occonutbased levelhood options.	vsu	Around 78 Farmer Membes of the Camanshay 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 Philippine Bamboo Industry: Addressing Policy Constraints and Information Needs	Rapid, inclusive and sustained economic growth	al leterity all enlewart policies affecting bamboo and analyse their interely/content, t) Examine the existing page and challenges focal in the implementation of the policies a viorsion levels single the supply chain; c) Develop policy recommendation(s) to address the identified gaps and challenges; c) forbuste the viability of the proposed gold yer commendation(s) by undertaking benefit or sanalysis and included assessment of carbon fortportie; c) advocate the proposed new policy on hamboo to policy makers and stakeholders; and [1] Develop a framework for an appropriate IT-supported bamboo data collection and dissemination system.	Pations: pointly faulty to review by stateholders) and submitted to DDNI/Congress Publications: amounts/pts for publication in pere-reviewed journal, terminal report, 2 IEC materials distributed Frenducts: framework for database/II "cystem on bamboo People and Services: Staff trained in best benefits cost analysis Places and Partnership: Conduct of 1 regional and 1 national consultation meeting/FGD	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	Integrity of the environment and climate change adaptation and mitigation	Intermetric high part of the day geotopology, agent product and journal of the control of the co	Products BICC on cordi reef realliency BIGS and clasticases BIGS and clasticases BIGS are disclasses BIGS are	BU	Regulatory Bodies such as BFAR and DENK, IGU's of 9 municipatities and 1 or 10		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 deploy SABAI developed technologies to a select group of farming communities and wildster be acceptability and sustainability of these technologies. So great sections of the section of the communities of the section of section of the	Deployed and validated SARAI technologies/lystems (SEAMS, WASS S-CSMS, Knowledge Portal and mobile appl). Capacitated (GUs and DOST Regional Offices on SARAI technologies/lystems Capacitated (GUs and DOST Regional Offices on SARAI technologies/lystems). SUC-6 Others: 6 Updated (GUS) and GUS of Common (GuS) (G	UPLB	PCAARBO Regional Consentia, Regional Agricultural Officers, Municipal Agricultural Officers, Farming Communities and Academie	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	leaved The project aims to design and develop a programmable dehydrator machine for herbal tea standards powered by olds mergy with hericin power backs of Sportis. Ostermine the effect of the dying method presently used by local tea producers on the ideal chemical matter (light dehmetial markers include bearole econopound with therapposit effects e.g. alkalodis, (Recondis, aspoints, and transing) present on the herbal tear area materials; - Design and develop a programmable dehydrator machine for herbal tear materials; - Destermine the organologistic physicochemical and microbiological characteristics of the finished products.	The expected output for this project will be a dehydrior makinic prototype designed for herbal true oping which can be electric or pair powerful with a basices of solar adultion, but on the provided provided the provided of the provided provided by the provided provided by the programmable circuit system to control and monitor the temperature and humidity of the drying system.	ISTU	The developed dehydrating making will be utilized by the local teal produces not fill be sourced with the factorial beam (E). The E that be used as model for other entire grappe in similar works wherein why can do beam durating 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-PCAARRO Innovation and Technolog: Center e-Library (DPITC e-Library)	y Rapid, inclusive and sustained economic growth	Generally the project aims to: 1. Made DOST-PAGR80 the pioneering partner agency of DOST-STII on transforming traditional libraries into e-library/digital library is the DOST-system; 2. To equip DOST-PCAARRO who cutomized digital tools already related library is the DOST-system; 2. To equip DOST-PCAARRO who cutomized digital tools already the properties of DOST-SC systems; 2. To equip DOST-PCAARRO who cutomized digital tools of DOST-STII into Science Ubray integrated Management System (SUMS), 2. Set up DOST-PCAARRO significant processor and software of the administrations and selfication for the cutomized SUMS, 3. Copcated DOTT-STIP systems of the administrations and selfication for the cutomized SUMS, 3. Copcated DOTT-STIP systems of the administration and selfication of the cutomized SUMS, 3. Copcated DOTT-STIP systems of the selfication process and selfication of the cutomized SUMS, 3. Copcated DOTT-STIP systems of the selfication of the standards citized significant process of DOTT-STIP shallows of the selfication of DOTT-STIP shallows of the selfication of DOST-STIP shallows of the selfication of SUMS in their libraries in the fature.	Year J. B. Requirements Evaluation Report 8 Template lossign 8 Databases structure 8 Systems Design 8 Training no DA and other library scialification and cataloguing standards Year 2 B. A fully functional SLMS website with customized modules for DPTIC Eibrary, 8 statishinked DPTIC Eibrary signation databases. B. Eduppoled DPTIC Eibrary start frow unit manage an statishinked DPTIC Eibrary signation states. B. Eduppoled DPTIC Eibrary start frow unit manage an statishinked DPTIC Eibrary Statishing S		The project brendts all who have a stake and interest in the ANNI sector (including students and the general paid) but would be more relevant and appropriate for those working and involved in the sectors such a recenterior. NO administrators, policy makers (sectors such a recenterior. NO administrators, policy makers (sectorive and legislative).	01-Oct-17	31-Mar-19	NEW	7,483,104	5,249,245
	Development and application of synbiotic enriched fish feeds for imprved production performance of millifish (Chanos chanos) towards sustainable aquaculture and foos security	Rapid, inclusive and d sustained economic growth	The proposed project aims to produce symbirity products and assess their potential to improve the general health, immune status, and growth performance of millifidity when supplemented in feeds. Specifically, this study aims to: 1. Octain and characterise pure culture loadiest or endogenous part bacteris in millifidity. 2 Produce sufficient amounts of probiotics fine floating of the mass from for use in feeding traits; 3. screen the potential colarly-wasilise equatio frants (i.e., and and dischweed for floating-busyline probiotics travally in wire evaluation of biochemical activity and properties, 4. Produce sufficient amounts of prebiotic materials for vive oseptiments of probiotic products that could best improve growth, survival, immune status, and disease belerance of millifish; and 6. Reassess gut microbiotics, exempse study in find ageitate tract, and digestability parameter tests to ducidate the biological activity of the symbiotic products in vive.		LSPU	Secreticaries would include the aquaculture industry in general, and specifically, thermall-scale milifinh 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 narophispeticide using metabolite/s from plant growthynomoting bacteria (PGPP8) agains. To develop a narophispeticide using metabolite/s from plant growthynomoting bacteria (PGPP8) agains. Fasatium sp. for the production of hazena, formation and cultumber. Specific: 1. To formation and collection of supplementation producing the formation growth of the development of the formation for an observable of unaborated nanobloopsticide or different byte value or post. To evaluate the toxicological effects of nanobloopsticide, sign of smalls, countries and sharans a set crosps; 4. To evaluate the toxicological effects of nanobloopsticide; 5. To determine the financial visibility on the production and utilization of nanobloopsticide; and 6. To apply for patent protection of nanobloopsticide.	Inducts I Sermilated nanobloceticide for Fluarium wit control 8 Application protocol of sentined nanoblocyticide formalistic sentined sendospositide formalistic fluares. Il 8 Application of severoped nanobloceticide fluares cooperators trained Publication: PAI test two CI) publications submitted to referred journals 8 Three brothures / flyers (Utilization of nanobloopesticide for the control of Fluarium Wilt on tomato, occumber and banama) Pilicace and Patriorships: Ill Collaboration with UPLB-IPB, SIU-Carthodale, Lapanday Foods Corp. and termers ground.	UPLB	8 Farmers, researchers, students	01-Dec-17	30-Nov-19	NEW	5,000,000	3,535,934

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 a Comprehensive Mechanization Resource Mapping, Monitoring and Data Analysis system (MSJOS) fo Planning, Implementation and Policy Data Generation for Government Departments and LGUs	r inclusive and	1. Develop a data capture system that will collect and consolidate relevant goot-aged mechanization resource data for major pain select regions of the country using appropriate software. 2. Develop a GIS based database analysis system that will allow storing, updating and adding of relevant general consolidate from the field that can be deployed in regional, provision of CIGIS; 3. Develop general methodologies that will allow goo spatial analysis and mapping that ellial as in the monitoring of key mechanization indications and provise strategic information for future mechanization stories are provided strategic information from the control in the venticus. 4. In the control of t	1. Data scupture system using appropriate software; 2. Data base system (see pre-enhances). 3. Scalable and expandable GIS system for mapping, analysis and forecasting; 4. Prototype system that can be deployed nationwide.	UPLB	Government Planeers, 1604, 30Cs	01-Jun-17	31-May-18	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 CSPV and PRRS that could differentiate infected from vectorated animals.	Indemnition/Invalvedup on the genetic station of UF and PRRS virus field strain and the viruses used in the converse increasation of UF and PRRS virus field strain and the viruses used in the converse increasation of UF and PRRS virus field of UF and PRS virus field of UF and PRS virus field of UF and PRS virus field of UF and V	CLSU	RADDIs, SUCs and PVOs Selected private animal disease diagnostic laboratories Outaments officers of the government Pig raisers that have access to international trade on export market	01-Jan-17	31-Dec-18	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 exist seawed general service field of our grantly effected by the recent hyborous by developing an appropriate device greater for none reflective and fast ordying of seaweds. The said technology that will be developed will be suitable for village level scale.	3 Prototype dryer design for seaweeds 3 Demonstration facility for drying seaweeds 3 Scientific publication and other IRC 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 income of seaweed farmers.	01-Sep-15	31-Dec-17	ONGOING	3,462,090	293,859
	Development of Decision Support System for Enhancing Climate Change Resiliency of Smallholder 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 disunterseillent femilia gromunitation in CAMARAZON, Specifically, the project aims to: 1) Assess biophysical and socioeconomic characteristics of the selected watershed area in CAMARAZON, Q-Develop a Gib-Saved approversity had capability maping scheme (ACMAS); 3) Determine potential impacts of climate change on land capability distribution, 4) Enhance technical capabilities of selected (Osl) in climate project of Gib-Saved ACMASO 3) Recommend adaptation strategies to farming communities for higher climate change-realiency.	-Basetine information on biophysical and socio-economic characteristics -Gib-Sased land capability maps -Validated land capability maps -Validated land capability maps -Gib-Sased land capability maps with climate change scenario Turn-over (i.e., gain and loss) Mayor of land capability -Capacitated members of selected LiUs and local community in climate proofing -Publishable research outputs	UPLB	The beneficiaries of this Research and Development activity will include the following: 1) National Agencies and Local Government Units (LGU)—results of the project can serve a soring of flaud drus for better planning 2) Residents of Target study sizes (i.e. Smallholder Upland Farmers)—result included commonly for enhance residency (3) Polisy National and Decision Nations—results of the project can serve a so aroning of enhance services of the project can serve as a loss for force investments 3). Academic and other scientific research institutions—results of the project can serve as basis/reference for conducting similar research in other sizes.	01-Feb-17	31-Jan-20	NEW	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" pulsaging of rice and other tood commodities. 3.1 To identify raw materials to be used for organic packaging based on: a bundence/packaginalbility in material characteristics. 2.1 To develop a process of converting raw materials for packaging that would be result to: b. reduction of health hazard chemicals to prevent door contamination C cost effective and reduction of carbon flootprints 3.1 To develop a strong durable and moisture resistant	Established process of conventing exo-friendly raw materials into green packaging technically, Var Z. Produced as though and moisture resistant organic packaging paper	ISTU	Organic/Specialty rice Farmers (se.g. IDOFA), ISAT U, lowertors, Researchers and consumers		30-Sep-19		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, relables and cost effective in vitro micro-propagation protocol for mass prospection of four exemproisal jumporants humbon species in the course, Specifically, it sims to: 1. To determine most suitable sterilization procedure for each hambon species. 2. To determine most suitable sterilization procedure for each hambon species. 2. To determine the state of the special sterilization of regulart statishinement and shoot profileration for each hambon species. 3. To determine note effective hormonal combinatory/culture state of the sta	It Micropropagation protocol developed for the four economically important harmboo species. I Socialization proceed inveloped for each harmboo species. I Solitum emidic capable of generating maximum number of shoots per regiant per subsultate cycle per year for each harmboo species, sil- Cutture medic capable of generating maximum number of roots per ceptaint per subclutines; of per year for each harmboo species. In Acclimatation procedure developed to establish seedlings capable of surviving in the factor or ach harmboo species. In Not appropriate fertilize for supervision of surviving in the factor or ach harmboo species. In Social supposition fertilize for Social supervision of the surviving surviving surviving surviving surviving surviving Social surviving sur	ERDB	I. Bamboo Fareer – Procision of quality planting materials at low cont. 2 Bamboo Indexire: – Provision of degrees supply of raw materials 3. Researchers – Provision of information on tissue culture of the 4 bamboos.	01-Nov-16	31-Oct-19	ONGOING	4,664,165	424,511
	Development of Multiple Strains of Plant Growth Promoting Rhizobacteria-based Biofertilizer for Sustainabl Lowland Rice Production	Rapid, e inclusive and sustained economic growth	The project will utilize biochemical and molecular biology exchosises for profiling the soil microbial community divention of or selecting the most competent PDRS strains that may be combined with organic and inorganic fertilizers. To develop multiple strains of PDRP based biofertilizer for sustainable rice production and soil fertility in less with integrated plant nutrition imagement strategies in bounded occupations.	Developed multi-strain bioletrize for lowland rice in Central Luson Decreased Fermina (super 12-15-55) Recommended method and rate of application of developed biofertilizer Capamified excommist benefits of using the multi-strain biofertilizer technology Trained 15 farmers on the developed biofertilizer technology Trained 15 farmers on the developed biofertilizer technology Trained 15 farmers on the developed biofertilizer technology	PhilRice	irigated lowland rice farmers; biofertilizer producers; 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 clicken (Durag, Boholano, Camarines, and ZamPen) and layer dust (P litim, P Khaki, and IP Kayumanggi) genetic groups information system that would be available to all stakeholders.	Searchable online database containing baseline information on the overall flook performance of Durag, Boholano, Camarines, and ZamPen native chickens, and IP Itim and IP khaki layer ducks.	UPLB	Native chicken/layer duck breeders and raisers. ■ Entrepreneurs ■ Academe/Researchers ■ Students ■ Policy makers	01-Jan-17	31-Dec-18	NEW	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 *Chrine database containing information on physical characteristics and overall herd performance of native plays from Kalinga, Reguert, Isabela, Nueva Vitzaya, Marinduque, Bondoc Peninsula, and Samar *A la least 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	31-Mar-19		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 broodstock of Pensaus vanuame to sustain its production. It will also help ease the procurement of Ironodstock in the country.	1. Culture of 4 soundation families of P. vannamen from North America established in the Philippines; 2. Optimized Broodstoke rearing, breeding, and hatchery protocols for P. vannames in the Philippines developed. 3. P. vannames broodstocks enhibiting traits is better growth performance and enhanced restrictions are supported by the protocols for the Philippines developed to the Philippines of the Philippines and the Philippines are supported in the Philippines.	UPV	Various sectors of the shrimp industry such as shrimp growers and hatchery operators	01-Jul-17	30-Jun-18	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 grossapties and bamboo short production. Through this project, it is expected to havemough supply of bamboo postning materials and year-canuf supply of bamboo shorts in Magalang and nearby areas. Specifically, it aims 1.0. Letermine the best method of prospagating bamboo propagate; 2. Increase survival rate of prospagates from 50% to 70%; 3. Develop a suitable thinning regime for shoot production. All the project projects from 50% to 70%; 3. Develop a suitable thinning regime for shoot production of traveas bamboo shoot production of lawayeartinis (Bamboushbumeans/churpleys). Determine the deviate both of production of lawayeartinis (Bamboushbumeans/churpleyss). Determine the best cancego material and practices to prolong the shell file of bamboo shoots prior to processing; and 7. Determine the cost of improving prospagate unward atte and in CK Meeting, June 21 2016 improving shoot production as well as producing shoots offsession	I identified the best method of propagating procapalise I improved survival rate by 50 to 70% is Determined the north appropriate method of rigisation for short production I illentified the suitable thinking regime for shoot production. Ill increased the bamboo shoot production from 54 shoots per clumps persy at 0.03 shoots per dump persyers Illicatified the best material and method to profoling the shelf life of newly harvested bamboo shoots. Ill Produced ICC materials (LODO copies) on prographie propagation, thinning and water regime for shoot production and prolonging shelf life of newly harvested shoots.	PSAU	Bamboo is a manefeour resource that provides a mysial of benefits for billions of people, Development of bamboo prosources is economically assisting impoversible people while at the same time stabilizing enotible stopes and flood grown estertheids. The ability to substantially accentuate rapid growth through intensive management for commercialization purposes magnifies its many benefits.	01-Aug-16	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	Total Project 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 plantlet regeneration using shool/hood activate, and multiplication through allality book and callus culture, and in vitro rooting using growth regulation of economically important bamboo, (1) develop effective techniques(s) in establishing tissue culture plantlets in usery until plantlets are ready for planting in the field, and its targe sole production of planting materials, (3) text the unival for the tissue culture-derived bamboos established in numerical comparison to controlleroid propagated formitted bamboo species in the field, and (1) determine cost of producing tissue culture-derived bamboo.	micropropagation (i.e. best sterilization procedure plantlet regeneration and multiplication protocol and plantlet establishment) in comparison to existing conventional propagation for economically important bamboo species in the Philippines. Year 2 N An effective protocol for establishing tissue culture plantlets in the nursery until the	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 sustained economic growth	The objectives of the project are to: a. Initiate a DNA barrode library of encommically and ecologically important fish special in Balant, Sola and Diawa Porvivices. b. Actualise fish species checks it collected in Basilan, Sult, Taw-Tawi and Dawa Provinces sult On but harcoding and destrib, reas species. b. Actualise fish species checks it collected in Basilan, Sult, Taw-Tawi and Dawa Provinces sult on but barcoding and destrib, reas species taw commercially important species (Sarina quoy) and Terapon jarbus) obtained in Basilan and Dawa only. d. Strengthen collaboration with Miss in the region as well as with Mindrana Sate University Roons, Taw-Taw through capacity building and forging of MOA on collaborative research and technical training/support	Publications * 2 in deed publications * 2 in deed publications * 1 in deed publications * 1 in local publications * 1 in local publications * 1 in local publication * 2 in local publication * 2 in local publication * 3 in local publication * 2 in local publication * 2 in local publication * 2 in local publication * 3 in local publication * 3 in local publication * 4 in local publication * 5 in local publication * 5 in local publication * 6 in local publication *	UPM	Academe, government sectors, fisherfolks and resource managers for the protection/conservation of marine fishes in the Basilan, Sulv., Tavi-Tavi and Donas. See Section 1999. Basilan Sulv. Tavi-Tavi and Section (DMSC, DOSCST, USEP). Davao Coccini. Coccini. Basilan Sulv. Total for the hands on training on DNA bercoding. Bis lickeys students and faculty member of UP Mindanao.	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 growth	To determine the effective and potential demand for TBI services in selected SUCs.	Benchmarking, Project terminal report, articles, Profile of technology generators, and policy/guidelines for TBI development	UPLB	DOST-TTPD 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 outure-dependent and independent analysis and produced manalysis for nanomaterials on the survival of gusA-labelled PGPB inoculam strain in the soil and in the rhizophere *To assess the effect of nanomaterials on the efficacy of microbial inoculants on high value crops.	P1. Changes in the bacterial and fungal populations in the soil Molecular profile of the soil bacterial community Gus- A betelled microbial inoculum strain Y2. Molecular profile of the soil fungal community. Identified microorganisms that were affected by the nanomaterials Information on the effect of ranomaterials on the survival of PGPB inoculum strain in the soil and in the rhizosphere Information on the effect of ranomaterials on the efficacy of microbial inoculants Safety assessment of soil microbial community and microbial inoculants as affected by earnomaterials At least two scientific publications on the results of the research project	UPLB	*Regulatory agencies *Anomaterials producers *Researchers, student		31-Oct-18		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 IFSO zbrengthened to become TPO in RDIs in Lucon 2.9 TPO: scalabile 2.9 TPO: scalabile 2.4 It least 20 technology transfer staff trained on IP management and commercialization 3.4 It least 20 technology transfer staff trained on IP management and commercialization 5.1 Inventory matured technologies 5. Inventory matured technologies 6. Inventory matured technologies 7. 1 technology per RDI commercialized 8. IT Off offices institutionalized	cvsu	technology transfer 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 Objective: The project area to strengthen the promotion of the DOST-FCAABBO AANS Technologies through interactive Exhibits, Product Bazear, and On-tine Promotion. Specific Objectives: 1. To develop interactive jedicalisment exhibits more attractive to its target audience; 2. To create infortament materials that will increase awareness of the general public of the contribution of SST to applicatives, agreate and natural removerse sectors; 3. To fast strack transfer/commercialization of technologies, products and services through techno demonstrations, technology exhibits, product bazear and online promotion.	Sublation Report 2. Upgraded Shalb display system at DPTC with Interactive components 3. Upgraded Shalb display system at DDSTAP Dicely/ Centre With Interactive components 4. DPTC and DDST ATAP developed promotion plan, implementation and M&E report 5. Developed on-line promotion website and social media site 6. Product Bazaar 7. DDST Mobile Promotion LED Total Control of the Promotion State of the Promot	TAPI	The main beneficiarie of the project are farmers, fisher folis, policy makers and measures, while scondary beneficiaries includes students and the general public.	01-Oct-17	31-Mar-19	NEW	19,297,080	16,448,331
	Establishing patterns between Harmfuf 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 edjective of this projects to determine the linkage of harmful algal blooms with weather observations, and the primary of the pri	*Time series data on NAB cognitions, other physiophothon and physico-chemical conditions through weather photomens, particularly the ISOO *Time series data on physico-chemical conditions in the target sites through weather phenomens, particularly the ISOO *Increased understanding of HABs in relationship to recurrent weather phenomens such as ISOO that can be used to refer the existing loophysical and early-warning models for HABs and inform HAB response and management efforts *Validated and refined ScAHABS	UPD	Bures of Fibrites and Aquatic Resources (BFAX) - LIGHL & NOSe - Shelfish industry, mariculare 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	incread Objective. To established benef regists system for purched native in the Philippines that will extens the supply and equility of bronein grip for the local gip individuality. Specific Objectives: 1.70 develop a national database for pedigree and performance information of bronein grip. 2015 and performance registry system for local purched that would allow ranking of individual breeder pigs within a breed. 3.10 develop breed verification system and parerrange testing products for purched works. 4.10 permote the breed registry system to so wise breeders and post produces to enhance accessibility for superior breeder similar.	Element Signitive System and disablese for Protected Landrese, Legephritise and Donce. 3 Prefigere- centificates all three-desirellation (b) and well-marked sony serior in Tarrialing consider for firm data recorders 3P Protocol for system operations. 35 Selection Indices 31 Identification and ranking of generalizably superior pigs within a breed	UPLB	ASBAP members (Breeder Farms) Academe Researchers Students Purk producers Consumers	01-Jun-16	31-May-18	ONGOING	10,000,000	2,001,430

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
	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 this a publicipativate particularly between and among the NOA, PCC and private daily industry physics in envisioned to: 1) Catalyse the establishment of local dairy cattle foundation breeder populations that will sustainably supply high milipatoring dairy hefers and sown needed by the Filipino dairy farmers, 2) Customise the ET technology using prodegreed frozen dairy cattle embryos to suit to local dairy farm conditions. 3) Determine the technical and economic feasibility of using proted generatory buyenine frozen embryos in betting up the dairy state population inventory of the country. Economie provide dairy industry players to actively participate in R&D southers and promote the design of a SET beard embryos of embryos dairy productively and production efficiency of the Philippine dairy industry.	1) Initial inventory of pedigered dairy cattle to form the foundation breeder head 2) Customized ET protocol using force embryos 3) More profices technicals to service dairy farms 4) Functional private public partnership in technology verification and application	NDA, PCC	1) Dary farm owers 2) Dairy industry practitioners 3) Researchers 4) Professor 5) Students	01-Oct-16		ONGOING	4,881,567	537,059
	Establishment of Forage Production Modules for Slaughter Goats in Bongabon 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 resoure year-round supply of quality feets for greats and support the raw materials needs of the Technoman Tropict on preletized feets in Bongsbon, Nursen Eigls, Specific: 1, 10 promote wider adoption of science-based technologies on forage production for goal through the STGET models; in Snogpbon, Nursen Eigls, 2 To strengthen the capabilities of goal famers on recommended technologies to produce forage for a 3-0-decorated or some states of the strength of the STGET science of the STGET s	1) Trained at least 30 goals famours 37 Conducted at least 91 Trainings (Technologies on the establishment and insintenance of frage-feeding production nondex: Technologies on the session improved goal management / enterprise). 3) Established two nurseries with a total production 30,0000 seedings, 91, Established 2 Community-based and 11 Club Aude forage production modules with a total of 8 ha forage farm. 3) Froduced 106.4 toto/har of fresh forage and 23.84 common for the service of the ser	cisu	30 goal farmers	01-Nov-15	31-Oct-18	ONGOING	3,488,475	877,991
	Establishment of Rubber Nursery, Budwood Garden and Demonstration Farm in Cavinti, Laguna: An STCBF Approach	Rapid, inclusive and sustained economic growth	General Objective: The project aims to increase the productivity of rishedr farms owned by farmer-members of the Southern Taplage Rabber Thousert Cooperating (FREE) in Cavint, Lagram and the independent risher farmers in the neighboring municipalities of the area within the provinces of CALABAZDIX (especially Juguan, Rizu, and Auduson) by promoting Sciences and Technology interventions through the Science and Technology Community Based Tarms Approach. 1997 (1997) (1	Listablehed one scorelated rubber nursery (Tha) and budwood garden (Tlah) as an inconnecimentality program under the management of STRPS, to Sprained fine clusters (one in every province of CALABARZON) of nubber farmers who are interested to pursue nubber closs plantation and processing. C Istablehed and manistrated lineage with various whole stakeholders, namely: BaSU, CASU, URS, SSU, (GU lappan, DOST-4VA, DTR-VA, OTR-VA, CALABO, C. Developed, triminalist and/or extentioned 200 capies of Its materials on rubber to compare the compared of the com	UPLB	Southern Tagalog Bubble Productors' Congentative STSIPC) members 2, Beaution Coronnustries Within Lagura and neighboring provinces of CALBARZON 3, DTI, DTIRS, and the LOUs of Lagura and Chellis, 4 Private institution and individuals who will verture on rubber production and marketing:	01-Sep-16	31-Aug-18	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 showcase the gadage of technologies on five range Native chicken production. Septicitally, the progregations: 1. To promote wider adoption of the full application of package of technologies to attain technology convergence of five range native chickens for the existing pountry raisers in the Province of Capics; 2. To schive the crosses farm production and profitability of fire range native chicken-raisers respectively through the full adoption of POT on five range Native Chicken production; 3. To strengthen interest the full adoption of POT on five range Native Chicken production; 3. To strengthen interesting the strength of the strengt	I. Established STME on the range lative chicken production, 2. Information on the productive and propriorities proformation of the range (Sinken a. Adopted the IM OV and statistics) and reproductive proformation of the range (Sinken a. Adopted the IM OV and statistics) and the state chicken-chicken respectively in the STME. Is Established instigates of the farmer cooperations developed and expanded (from production to marketing). G. Granted Organic and Good Animal Hausbandry Practices Certification, 7. Developed, produced and distributed IEC materials including video production on STMF modality. 8. Trainings of pouttry raisers in the 33 barangays of Dumarao, Capiz.	CapSu	Poultry Raisers	01-Mar-16	28-Feb-18	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 abaca industry through enhanced and sustained development of abaca hybrids for the poly industry. 1. To establish a ten hectare production area of hybrids (2 and 7), 2. To evaluate their fiber quality for the pulp industry.	B Established 10 Nectore area for the abaca hybrids. 3 Produced 15,000 abaca hybrid seedlings for the 10 Nectore area. 3 Avessed and evaluated the abaca hybrids as to their fiber quality specifically its pulsing properties.	VSU	3 Farmen/Farmer Cooperatives 31 Nursery Operators 31 Local Government Units 31 Abaca Processor	01-Nov-16	31-Oct-19	ONGOING	4,893,698	1,287,500
	Etiology and Management Strategies for Tapping Panel Drymess and Stem Bleeding of Rubber	Rapid, inclusive and sustained economic growth	This project aims to investigate the etiology of tapping apart dyness and stem breeding conditions in abother. It seeds to etablish the cause of these two conditions as it exitest to nutrifice, weather patterns and genetic (types of dones deployed in the field). The project in the end shall formulate amangement recommendations to avoid tapping panel dyness and stem bleeding in plantation.	comprehensive documentation on the practices of local farmers in managing the TPD and stem bleeding syndrom 2. Establishment of comprehensive strategies to manage TPD and stem bleeding of nubber. A Better collaboration among private nubber growers and concerned government agencies on developing strategies against TPD and stem bleeding of nubber.	JRMSU - Tampilisan	This study may benefit the famers by letting them understand and noted the factor commitant to the development of 170 and stem bleeding diseases. Furthermore, the results of this study will boot the theoretical knowledge of students on disease management of maker: In addition, concerned government offices, such as D.A. and their research institution will be provided with correct information to enable them to device scheme to manage 170 and stem bleeding diseases of nubber	01-Jul-16	31-Dec-18	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 reflect be brighter technology applicable to different water conditions. Specifically it aims 1.0. Determine yeld performance of musesic human in longing a varying water productivity and depth 2. Determine the economic viability and social acceptability of using the refined technology. 3. Develop IEC materials	3 Refined longine technology applicable to different water conditions 3 Cost and return analysis of the longine technology at different productivity 0 Trained 20 collaborators 3 IEC materials – training manual and pamphiets	ssu	Multi-takers beneficiaries of the research are, shellfish industry layers/fisherfolls/shellfish farmers; planners/policy makers/regulators/researchers (DRN/BFAA/DOST/LGUs/SUCs, etc.). But basically all Filipinos are potential beneficiaries of a greater supply of affordable animal protein.	01-Jul-16	30-Jun-18	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. Characterise the native vieegars in terms of organic acid contents, proximate analyzes and bacterial composition; 2. Determine the effects of incorporating a small amount of native vieegars tube post hand sas and apple cide vieegar cost the governant and freed efficiency performance of the Pacific White barring; 3. Determine the effects of the 3 vieegars incorporated in the basal date on the immune response of the white shrings passion paralmentlysicus. 4. Determine the effects of the 3 vieegars on the digestive enzymes of the Pacific white shrimp 5. Determine the effects of the 3 vieegars on the digestive enzymes of the Pacific white shrimp 5. Determine the effects of the 3 vieegars on the transcriptione profile in the hepathopartors of the white shrimp; 6. Determine the effects of each vinegar profile after challenge with Vibrio parahemolyticus.	Information on total phenois, (Revocals and volatile compounds; 2. Optimum delary levels of TV and SV 3. Effects of the two vinegars on the immune response of the white shrimp against the pathogen 4. Effects of the two vinegars on the immune response of the desirable enzymes trypain, chymotrypain and agala anylase of the white shrimp 5. Effects of the 2 vinegars on the transcriptomic profile of the white shrimps following challenge tests	UPV	fisherfishs, feel industry, researchers, scientists, general public and science	01-Aug-17	31-Jul-19	NEW	4,178,548	2,193,975
	Evaluation Trials on Different Control Strategies Against Paper Mulberry	Rapid, inclusive and sustained economic growth	The case 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 conduct and evaluate different control measures that can inhibit the growth of paper mulberry; 2. To optimize 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 protect that best control the growth of paper mulberry.	Evaluate the effects of different control resource spiped: Quinnized right concentration application to control growth of paper mulberry; Assessment of the temporal effectiveness of the different control strategies; Accelegated (Envanterials Formulated best control measure to control growth of paper mulberry	BPI-LBNCRDPSC	tot owners, form couriers where presence of paper mulberry becomes a menace	01-Jul-17	31-Dec-17	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, patent and pilot the fungicide.	The biospesticide products can be recommended in use in Regions 10,11,12	СМИ	Farmers, EDC personnel, vegetable and sugarcane planters	01-Oct-17	30-Sep-19	NEW	4,998,214	2,979,587
	Field Verification Testing of Carrageenan Plant Food Supplement Technology for Enhanced Growth and Induced Pest and Disease Resistance in Rice in Regions 2 and 3	Poverty reduction and empowerment of the poor	a. Efficacy of the product as inducers of resistance against turage in inbred rice under boatton-specific field conditions. 3. b. Efficacy of the product as inducers of resistance in hybrid rice against bacterial leaf blight (BLB); c. Efficacy of the product as inducers of resistance in rice insect pents such as green leaf hopper (GLH), brown the product as inducers of resistance in rice insect pents such as green leaf hopper (GLH), brown the production density of beneficial sethiopsets. S. The conduct caragemena multi-location demonstration that a farmers' field in Cappara, N. Vizvoz, Outinns, labelse, Backan, and Naves Gick for two rice cropping seasons. e. To facilitate product registrations at the fertilizer and Pesticide Authority (PR) of caragemena broad or established best nutrient management particles for dy and west cropping seasons. E. To conduct technology promotion/commercialization of caragereans.	Peterstable plant growth promoter is Suitable crop management practices for fire through application of radiation-modified carragement. Peterstable process on application of radiation-modified carragement. Induced resistance against turgro, cutworm, and armyworm of selected rice varieties, due to growth promoting potentials of radiation-modified carragement. e. Scientific papers and technology buildetins.	UPLB, PNRI, DOST	Size farmers, researchers, millens, traders, processors and other nice industry stakeholders.	01-Oct-16	31-Mar-18	ONGOING	4,965,985	2,694,521
	Fish KII Mitgation Measures for Cage Aquaculture Systems in Buhl 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.	8 Early warning system 8 fishalf mitigation protocols 8 Manual of operation for fishalf mitigation and good equacularly practices 2 Trainings conducted for Local Government Units and fish cage operation/fishfarmers in Albay and Isabela	BU, ISU	Aquaculturis; resembers, scademe, policy makersand fisherfolis in target sites: Buhi lakeandMagat reservoir, etc.	01-Oct-16	30-Sep-18	ONGOING	10,000,000	4,350,729
	Gender Responsive Sustainable S&T Based Uzvellhood or Tilapia Cage Culture and Fish Processing for Low-Income 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 women and men in coastal labe brangary. 2. To capacitate men and women of KIGU-LB and Slapis his framers on gender responsive SAT based heritodo on this gar age culture and his processing. 3. To empower thispis cape timems/looperators with enterpresental and marketing skills. 3. To empower thispis cape timems/looperators with enterpresental and marketing skills. 5. To enhance collaborative efforts and networking among various stakeholders for technical, financial support and market linkage.	1. 10 trainings on Good Aquacture Practices and Enterpreneurship (Product Development, Packaging and Labeling, Manageinger, Handley, Chair Pow (Financia) Manageiner), and Safets and Marketing). 2. 50 fishers and 100 women who received hand outs and other IEC materials regarding production, marketing and production deligin of lispic arge culture and fish processing from 1. 5. Financed honologing and skills among 10.0 community statebolders on slapial production strongly cage culture and fish processing as a livelihood enterprise. 1. Financed honologing and skills among 10.0 community statebolders on fish processing 5. Adoption of science-based fish processing techniques and enterprise engagement of at least 50% of the targeted mark list among 150 community statebolders on fish processing 5. Adoption of science-based fish processing techniques and enterprise engagement of at least 50% of the targeted marks list among 150 community statebolders on fish processing 6. Farticipation in the weekeeping analysis of the varyer of or project implementation 6. Farticipation in the weekeeping analysis of science years of processing the development by 80% 8. Organized and strengthened one self-lebg group of women 9. Identified marketing arrangement between load prospective buyers 10. One cooperative organized and registered	Local Government Unit, Los Banos	Talpain Foll Orge Culture: Direct beneficiaries of this project would be 50 families of his transers father, medium, grand parent, children above 18, senior citizen within the family facilities of the control of the	01-Nov-16	31-Oct-18	ONGOING	3,000,000	901,182
	Geophysical Coral Mapping	Integrity of the environment and climate change adaptation and mitigation	In the Philippines have not thoroughly explored its deep sea water, the resources it holds and the potentials of these resources for future sole economic herefits. It is an intellated spire deep sea resources particularly the country's deep sea corals. 3. Deep sea explorations in other countries have revaled unexpected divently of the coral sconystem on continental solveies, slopes and ridge systems. It is important for the Philippines to initiate the same activities before therefore countries start these extitives solveithe country's sentitive, and excited solveithe solveither solveith solveither sources start there exists excited the country's sentitive, and provide habitat for fish and invertebrates. It is not remote as well that they may provide resources with bioactive compounds essential to the pharmacountrial industries.	Detailed bathymeric chair of a portion of the Ago Recf. 2) substrate map of a portion of Ago Recf. 3) Map of portional sizes of occurrence of deep sea corals is netered sizes in Ago Partial Initial detailed bathymetric chair and substrate map of a portion of the Patranungan Recf. 5) Initial map of potential sites of occurrence of deep sea corals in Patranungan Recf.	ОРО	OUNR, BFAS, Biodiversity 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	is order to conserve gemplasis or independs (endangered and theatened) focus trees found in Mt. 1. To dentify and select quality mother trees of indigenous forest tree species as potential sources of superior quality sector, to gemplase orderiors. 2. To produce quality planting materials of selected 23 superior quality sector for gemplase orderiors. 2. To produce quality planting materials of selected 25 superior quality sector for gemplase orderiors. 2. To produce quality planting materials of selected 25 SSO) for the selected 25 indigenous forest tree species at the UP land Grant (Lagues Chaeson), including monitoring and evaluation.	Items 1 25 of mother trees geo-tagged from the 25 selected species and seeds collected from 15 species based on phemology schedule (please refer to Table 3) MAD between UPLB CFNR and NPGRL for generalism conservation of Indigenous trees tree species 5 seeds collected from additional 10 species 16 rotocols for germplasm conservation of the Initial 15 species collected (e.g. Seed viability and germination in selection to MA and storage limits, Seed and analysis 6 reduced for the seed of the Seed storage (e.g. Seed viability and germination in selection to MA and storage (eine, Seed analysis) 7 collection for per batch of selected species as commitment of CFNR) 15 collection for rest batch of selected species as commitment of CFNR) 15 collection (e.g. Seed viability and germination in selection propagated from 10 species 15 collection (e.g. Seed viability and germination in Seed or Seed viability and germination in Seed viability a	UPLB	This project is expected to benefit the College of Forestry and Natural Resource through provision of scientification for consensation of scient indigenous species in the MMR-1 to larger exactly, the vision is cessible in a wide scientification (and in the consensation of scientification of scientification of the expected project in scientification of the expected program for these species. The proposed project specifically largest surrous stateholders of the Muskilling frost thresholders of the Muskilling frost series of the Muskilling frost specifically largests surrous stateholders of the Muskilling frost Reserved and the Full Scientification of the Muskilling frost finester than TURI as a whole, approximately 50 researches, including series that Muskilling frost finester than the Muskilling frost description of the Muskilling for thesis or specification of the forest specification of the Muskilling for the Muskilling	01-Mar-16	28-Feb-19	ONGOING	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 plantation of rulbade and caso. Specific devices: 3 (dements a distinuished gen information on the production areas for nubber and caso through GIS-based invertory; b) develop a national database on the total control project plantation and production areas of nubber and caso in the Philippines; and c) Identify potential expansion areas for nubber and caso.	Created a national gen-information and database on rubber and caso Loveleped a field methodology framework to monitor polantations using practical and simple stock. Support of the sustability location options for plantation expansion; A Produced at least 2 publications in a refereed journal.	UPLB	Rubber and cacao industries - policy makers; farmens; LGU (regional to national) rubber resource planners; plantation owners of rubber 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 PCAARRO Publications	Transparent, accountable, and participatory governance	The impact assessment of PCAARDD's CE materials and upblications aims to assess the benefits generated by the materials/placelations among their target sudences and other stakeholders. On their behand, the impact assessment of PCAARDD capability-building protest aims to assess the R&D capability-building protest aims to assess the R&D capability-building protest aims to assess the R&D capability-building borneling semicated by the projects in the national agriculture and resources research and development network (PMRDDI)		UPLB	a. P.CAARRY Applied Communication Division b. P.CAARRO 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 Meet Processing Technologies towards Production of Quality Slaughter Goats in Cagayan Valley	Transparent, accountable, and participatory governance	To analyse and quantify the impacts of the PCAMBOD-DOST funded project titled CVAMBOD Regional Programs can be fulnemented of Al and Meat Processing Technologies Towards Production of Quality Saughter Goats in Cagiyyan Valley	2. 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 is identification and assessment of the impact pathways by identifying project results. 4. Estimation of the economic returns 5. Policy recommendations for the enhancement of the adoption of technology generated further to develop the goat industry.	CLSU	Rolicy and decision maken, national SAT opsiem, funding agencies supporting RBO activities, researches who are dreterly howeved 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 green objective of the study is to assess the impacts of the coral transplantation technology using securally reproduced corals on previously degraded coral reef ecosystem in selected sites in the Philippincially, the study aims to: 1. Widdist the performance of the Falipinnovation Coral Restoration Program specifically the coral transplantation technology that utilized assessully reproduced coral fragments. 2. Assess the impact of the transplantation technology on the biophysical economic, and social aspects of the study sites particularly in term of fish biomass and recreational value. 3. Develop a monoting protocol in conducting impact assessment of coral restoration projects particularly using the assessal 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, along with valuation specifically in terms of increased fine 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 or coral transplantation technology as applied in the Philippines and a monitoring protocol or coral transplantation technology as applied in the Philippines and a monitoring protocol or coral transplantation technology as applied in the Patilippines and a monitoring protocol or coral transplantation technology as applied in the Patilippines and a monitoring protocol or for protocol transplantation technology as applied in the Patilippines and a monitoring protocol or for protocol transplantation technology as applied in the Patilippines and a monitoring protocol or coral transplantation technology as applied in the Patilippines and the Patilippines are considered to the prospects of conducting IA of rehabilitation projects. 2. At least 1 draft journal articles for publication in IS journals	UPLB	Local fisher fiels and local tourism Local Government Uses of the study steps, NGOs and associations Government regulators such as Department of Tourism (DOT) and the Department of Environment and Natural Resources (DDN)	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 (IRULI) rice varieties that val require less NF refeltizers and irrigiation water for resource poor farmers. This requires scenaring of already developed RUE 220 entrypersion lines (IU.S) in the badgeound of newly released high yielding RUE were declerant rice ruitium. The project will also identify the most suitable ILs and have them nominated and nearload trails in the Philippines. Specifically, the project alms to: A Develop improved resource use efficient (IRUE) rice varieties. Is identify the genes/CILTs responsible for improved RUE. C. Loderstand the underlying ordical are aphyliological mechanism for RUE related traits. d. Conduct adaptive traits to validate and release the RUE materials in the target sites. Develop rom panagement practices suitable For RUF released varieties. L Disseminate the RUE rice varieties along with corp management practices travieties. L Disseminate the RUE rice varieties along with corp management practices in the Philippines.	Most suitable Its nominated into national trials for access by resource-goor farmers.	UPLB	Rus femmes, researchers, millens, traders, processors and other nee industry stakeholders.	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 kin dryer (from current manually operated to is semi-automated devery that would enhance the productivity, product Specific. 1. To develop a proteing semi-automate multiagolisation dryer for the wood and non-wood staced products of the forest-based industry. 2. To conduct performance evaluation of the proteings semi- dantset demiliary propose drien or window, and a semi-automated multiproducts of the conducts. 3. To develop drying schedules of various wood and non-wood products, 3. To develop drying schedules of various wood and non-wood are materials and products using the developed semi-automated dray and 4. To determine the drying efficiency (reduction in cost and time) of the developed prototype semisudomated multi-purpose dryer	Year 1: 18.4 2.40 our capacity semi-automated FTD shall have been designed and constructed from 2: 8 Lumber samples, bamboos and other materials shall have been collected for trial from 2. Stumber samples, bamboos and other materials shall have been collected for this discount of the same shall have been collected for the same shall have been collected shall be shall have and ship soon. Determined the enchoid and financial for BTD is of the same shall have been shall be shall	FPRDI	Lumber, Furniture, handcrafts and non-wood forestbased industries	01-Oct-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 Facili	Rapid, inclusive and sustained economic growth	To improve survival of the hatchery-produced musel through improved water and food facilies to augment musel population	Improve natural took and water fastitis: in musel studies; Improve natural took and water fastitis: in musel studies; Improve natural of any seem used into mustland region. Improve deshrology of holding stask in the nurser your to seedling them to grow out farm; Improve natural production of apparently health yatchery produced green musel seeds. I valuated 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 Government Funding Agency (GFA) mandated to fund projects to develop technologies in agriculture, aquatic and natural resources, there is a reed for PCARABID to ensure that appropriate ownership of research products are accorded to be spriced through applicable PLT. In will also provide adequate leverage for it as a GFA and is 88 BD institutes (BIOs) as schrology generators in technology framefor, which can also be appectated when a proposed exchrology transfer agreement shall be evaluated by the Fairness Opinion Board pursuant to Republic Act No. 1005S, otherwise brown as the "Philippine Technology intransfer and 2005". To provide IPR protection for PCARABID-funded research projects.	Year 2: 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 PCAARID	01-Oct-16	30-Sep-18	ONGOING	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 develop rapid and efficient pest response to A. rigidus infestation In develop rapid and efficient pest response to A. rigidus infestation In dembarage Perinsulus using integrated Pest Management Strattegy 1. To develop combination of control measures based on the level of CSI uniferatation. 2. To establish satellite rearing facility of C. caluacius in strategic boatons in Zambarage Perinsulus, and, 3. To assess the efficiency of the CSI pest response in Zambaraga	The delivenable of this proposed project is the development of a system that will provide the receasey information to learnch a negotine on detection of CSI in Zambourga Pleninsida.	DLSU	Coconut farmers, extension workers, academs, researchers, other stakeholders, and decision makers in Zambourga Perinsula.	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 Tides and Mesoscale Currents in Luson 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 Trequency Doppler Badis Cattermoneters (PIGS) on the North coals clause, with the eventual aim of mapping the surface currents, surface waves and wind direction hourly over a three-year period. Specifically, the proposal service to: * Generate key information on the horizontal structure of internal wave trains and the interactions of the Sunnisho with internal tides and mesoscale currents in southern Lurens Strait such as menders and eddler formation. * Proudle information about internal tide generation, propagation and energetics or to propagative three the Stantes and Boston Group of Islands, and Valuate the HighSS data based on existing ocean observing means, and to verify the HighS products with see truth and remote seening data.	Products - Database of surface currents and in-situ data * Time-series occanographic data * Mulaitation - 3 Series Journals* People Services - 10 Trained Personnel + 5 Gindautes Sudents - 4.65 Matrine Science students - 1909 Student Partnerships - MAO with University of Heasial and Moots Hade Occanographic Institution Policy - S&T based information that will input into policy or guidelines for conservation and management of martine resources for Southern Luzon Strait	UPD	enliging generment agencies audemid researchers also use surface current major for maritime safety, south and rescur 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 Gen	B. At least 50 major and emerging fungal pathogens of Philippine Carabac [*] mango isolates codecate/characterized/identified and deposited in Philippine cultural collections. B List and profiles of major fungal pathogens of Philippine cultural collections. B List and profiles of major fungal pathogens of Philippine Carabach mango with special emphasis on organization of the profiles of the Philippine Carabach mango and the period of the profiles and profiles of the profiles and profiles and black profiles and seed to the profiles and profiles an	PUP	Farmers 2. Margo exporters 1. Scientisty Academicians/ Students 4. Public consumers 5. Fungicide manufacturers/industry	01-Jul-17	30-Jun-20	NEW	5,195,668	1,480,000
	Low Salt Fermented Mussel Sauce as a Potential Functiona Food and Ingredient	Rapid, inclusive and sustained economic growth	The project intends to adapt and change traditional finds source made by methods like formeratation into another product with functional and bounding properties. As fairing product, packaging grainements will be determined to protect the nutritional components and properties of the product as a its shelf stability at ambient conditions. 1. Develop processing method in the production of low-salt mussel sauce and its by-product; 2. Istability product characteristic (premission, serious) and nutritional composition (paris) and continued and product products. 2. Acress functional and lossociety properties. 4. Determine packaging and shelf stability requirements of the developed products.	Lone salt fermented muscal sauce with functional and bisactive properties; Product nutritional profile, shelf-life and packaging requirements	UPV	fixed industry, consumers, mused farmers	01-Apr-17	31-Mar-19	NEW	4,979,746	3,328,186
	Management and Commercialization of Technologies Generated from PCAARRO-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 PCARABDfunder tecent projects 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 PCARABD funder operate from Year 2010 to Year 2015 for prioritization for commercializations, 2. To evaluate the potential of each technologies based on prioritization for IP generation and protections, 3. To evaluate the potential of each technologies based on prioritization for IP generation and protection, 3. To evaluate the potential of each technologies based on prioritization for IP generation and PCARABO funder projects and, 4. To commercialize the prioritized technologies generated from PCARABO funded projects.	Sage J. Audit and Prioritation & Besearch with Technology Potential Assessment Report II Priority is not rechnologies for practices and for commercialization (budded Pitchonlogy Profile Batakase II Capacity building for researchers and staff through IP management and technology commercialization trainings if intial IP protection (copyright and/or trademan's) applications and filings Sage J. IP Creation and Protection IP AS report II University fairness opinion report II IP Protection Draft and Application (copyright, trademan's, utility model, patent and plant veriety) Report II Progression or a subject of the protection of the provided provided provided in the provided	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 S&E protocol on the utilization of the parasitoid and enhancement of restural controlling factors for the sustainable management of CSI at the PCN-ZARC and Zambouraga City	Determined and analyzed level of infectation of CS and natural enemies; Lidentified most preferred host Stabilished 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 Aquasilviculture systems in terms of growth, survival, yeld; Always images of Agrasilviculture of mangrove crab on the water quality Always images of Agrasilviculture of mangrove crab on the water quality Describe the acceptability of Aquasilviculture system by the coastal communities in Alabat, Queron	Profitability analysis of the production performance of mangrove crab in aquasilviculture system C. Acceptability of aquasilviculture 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		subapoing disease distribution, with new technologies like Geographic Information System (DS) and predicting the course of all spead from for infection, with forestizing models, provide on proputarity to formulate management strategies designed to avoid spidemic inferrulification. These maps, likewise, allows the identification of growing reset that can be categorized with the prix of unfamiliary to environmental change in the Zambosanga Perinnuks, specific Objectives: To survey the prevalence and accidence of Saksa vanis deseases in the Zambosanga Perinnuks on Geographic Information system (GS) basic regions and the Cambosanga Perinnuks on Geographic Information system (GS) basic part (SS) and the Cambosanga Perinnuks on Geographic Information system (GS) according to the Cambosanga Perinnuks on Geographic Information system (GS) and varieties grown in the Zambosanga Perinnuks, to describe the cropping systems pacticed in abasic forms in Zambosanga Perinnuks in Cambosanga Perinnuks of London (GS) and the Cambosanga Perinnuks of London (GS) and London (GS) a	the above results 5. Better collaboration among government agencies and private growers on strategies regarding abova visus disease management 6. No less hand 3 betherical artistics to be published with possible titler as follows: a. Spread and internification of abaxa bunchy top in the Zambananga Preinsula. b. Living simulation modelling to predict risk of abaxa bunchy top in the Jambananga Peninsula. C. Agronomic and cultural practices in abaxa production in the Zambananga Peninsula.	Jose Rizal Memorial State University - Tampilisan, UPLB	Abou growny famers, government institution (DA PhilifOA), 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 sp. for inoculative release in the field particularly in the new seas of concent scale inner insulance. Specific To determine the best field release specific to develop a mass rearing protocol for Comprehella sp. To determine the best field release strategy for Comprehels sp. To evaluate the success of establishment and spread of Comprehella sp. in the release size of Comprehella sp. particularly in the new area of coronnt scale insiste invasion; and To measure the effect of insecticide(s) including biopesticide(s) on Comprehella sp. to ascertain the field conservation of Comprehella sp.	The entiring method that will be developed for Comprehels a, will be able to mass produce the parasitod the devicent time to respond quickly to new inscaland in Agiesia nother pactice the country particularly in northern Luzon, the Visapas and Mindansa cocount growing areas. The most efficient release strategy that the selected from the test will ensure the wibility of the parasitods and stable establishment for a sustainable biological control system. Establishment appread with significant increase in population of parasitods will be the outcome of the initial release of the parasitod and relying on repended releases in the same area. Compatibility of the chemical control (synthetic insections or bioparasitods) will be deterfied to concreve the presence of the biological control agents in the concorn plantations. The will ensure that the level of population of the concorn significantly at a low level which will make the pest satious of occornit size insect to maintained significantly at a low level which will make the pest satious of occornit size insect its past minor pest.	DLSU	Local occount 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 Seaweed 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 specifically stallite management including the women and school children in seedling/planting materials preparation To standardize the procedure in capturing the "seaweed drips" which were known to cortain plant growth permoting residues.	Adiesst one [1] Prototype of flow cost "Amphibious Utility Vehicle" (AUV) One [1] Prototype of Seaweed Harvester One [1] Prototype of Seaweed Harvester and Mechanical Line Risater Adiesat two [2] Applications for IPR Protection (e.g., patent, utility model or industrial desings) file with IPOPHI.	Palawan State University	Seaweed industry, Seaweed farmers, Bureau of Fisheries and Aquatic Resources (BFAR), Academe, Researchers/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 (Hemiptera: 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 diagnostic tools for amorred scale insects and associated natural elements to facilitate the formulation of appropriate management strategies for scale inext, Specific 1. To study the teasonomy of coconu-infesting and related spocies of the genus Applicitus and other amored scale insects of the trible Applicating. To conduct stamoniom; revisions of amored scale intest genera belonging to the tribles Diapolinia, Lepidosaphini and Pathatonini, with emphasis on those that include complexes or sposes that infest econom ada associated cropp. In 5 owney natural enemies of amored scale insects infesting coconul and associated cropps in the Philipipines; and 3 Project Objectives 4. To study the taxonomy of insect parasitoids and prediators attacking armored scale insects infesting coconul and associated cropps in the Philipipines.	1. One (1) set of morphology-based identification keys of amored scale insects and their natural enemies and illustrated diagnostic guides incorporating morphological data from other life stages of armoned scale insects 2. Compendium of scale insects statuking coconut and sasociated corpo; in the Philippines 4. Directis of natural enemies of amored scale insects infering coconut and associated corpo; in the Philippines 4. Directis of natural enemies of armored scale insects infesting cococular and associated corpo; in the Philippines 6. Directis of natural enemies of amoral associated corpo; in the Philippines 6. Directis of natural enemies of amoral associated corpo; in the Philippines 6. Direction of the Philippines 6.	UPLB	The dienticle in past management and diversity studies will be farmers, platners, platner, platner, platner, platners, platners, platners, platners, platners, platners, and officers, researchers, non-research staff, students and the interested public. This could support the convention of the natural enemy species statuking amoved scale invects infesting concount and other associated crops. More proportantly, this could help the clienties to identify the potential natural enemies that could efficiently control injurious armored scales issects in the future.	01-Oct-16	30-Sep-17	ONGOING	3,462,905	380,095
	Multi-location evaluation of naturally selected Saba strains with short stature and field evaluation of irradiated Saba/Cardaba	reduction and empowerment of the poor	The evaluate naturally-softcets and rendated Saha Centibus strains with short stature if a neter or less just my maturity (Insertable in 21.16 month). (1) for mass prospice and evaluates the agreement, yield and excounte performance of different Saha strains with hort stature if a meter or less that are havestable in 22.6 months) in a total of all less this has in selected locations (labels, how vitrays, tagums, Oriental Mindron, Davoo City and Bistatun), under farmeralit*s field condition. (2) to study the possible variety to be recommended to the farmers. (3) To conduct technology variety promotion and discinnations of promising straturally-selected Saha strains with short stature to determine the best possible variety to be recommended to the farmers. (3) To conduct technology variety promotion and discinnations of promising straturally-selected Saha with short stature. (4) To conduct delevaluation of irradiated short-statured Saha/Cardaba. (5) To evaluate promising straturally-selected Saha with short stature. (4) To conduct delevaluation of shafa for resistance against Banana Biract Mosaic Virus and Bugtos.	Short statured (4m or less) early fruiting (harvestable in 12-16 months) Saba	UPLB, ISU, NVSU, BPI-DNCRDC	Barana growers, Agricultural offices/lechnikisms, Non-government organizations, Receasibles	01-Dec-14	30-Nov-17	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	is general. The project aims to increase cray joids, induce damages due to insect pasts and diseases, and sustain the availability of caulity seed of imaghen and gename in major growing reasi in Regions 2,3.7 and 10 through foliar application of oligo-carrageersan as plant bio-trimulant. 1. To determine the effects of oligo-carrageersan on insect pest infestation (post observand customs) and design descriptions of the control of the con	1. New POT on the use and application of corrageness as plant biostimulates in Regions II, III, VII and 16 for imagelian and pleasant to increase servingle My 2-300, and shortes the particular period by 7-14 days; 2. Reduced insect pest and disease damages by at least 25% and improved roap protection systems for management of insect pests (pole bore and outworn) and diseases (Cercospora leaf sport and rust); 3. Technical Bulletins (i.e., cultural and management practices on 3 murgleses and penant production incorporating foliar application of carragenessn—rates and modes of application); 4. Articles published in identific journals; 5. Cest-Benefit Analyses on the use of Oligo-carrageness on murgleses and penant as Plant Biostimulatin; and 6. Carrageness product registration as plant bio-stimulant for murgleses and penant.	PNRI, PSAU, DA II, DA III, DA VII, DA X	 Rice and core formers (Regimes as sequential crops) 2. Manghess and prainat growers 3. Seed producers 4. Researchers and scientists 	16-Nov-16	15-Nov-18	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 develop a network of learning watersheds and watershed management decision support system. Specifically, it aims to a) establish investes senor networks that will provide real-time information on water quantity and quality, local climate and soil conditions of selected watersheds, bill establish networks of perment biotherish monthing plots; c) assess the internations of watershed and ecosystem services with human and natural factors(s) develop and/or waitersheds and ecosystem services with human and natural factors(s) develop and/or waitershed and soil on hydrology, biotherish and land formation; e) develop a develop and or waitershed and services with human and natural factors(s) develop and said information management system that synthesizes data from the watershed networks into real-line stated exists and the services of the service	Year 1 New Watersheds 3 Stakeholders mobilited, organized and agreements forged? Establishe wireless sensor networks that provide enable micrimations on suitane hydrologic and con- meteorological conditions of the watersheds 3 Established permanent biodiversity monitoring policis in all Learning Watersheds 3 Watershed por folies Old and New Watersheds 3 Watersheds and organized of the telephone of the watersheds 3 Watersheds water balance models 3 Water-use efficiency characteristics of the key tree species 37 Prototype of W10SS	UPLB. MMSU, ISU, ERDB, CMU, BUCAF	LGUs, formers	01-Mar-15	31-Aug-17	ONGOING	14,873,800	603,636
	Pilot Testing and Utilization of Rapid Bioassay for Pesticide Residues (RBPR) System in the Philippines	Powerty reduction and empowerment of the poor and vulnerable	1) Adopt the RBFR technology for acetylcholinesterase and pyrethroid tests for pesticide residues, 2.) Set up production arross of RBFP is this for critication and training of one analysis to be based on identified more residues, and the production of the residues of the residue of regardles in the Philippiess for farmer growers, and 6.) Promote the RBPR technology to appropriate regulatory bodies.	\$10 agricultural technicians and 6 market inspectors trained for monitoring vegetables in farm- and markets, \$10 vegetables researchers and clientis brained for monitoring septicial residues as pre and porturnite that \$10 Proposed applies in the Philippines to present and the property of the Philippines of the Phili	BSU, UPLB	Target beneficiaries are vegetable consumers in general, recess their and extension southers who work closely with vegetable invense. I 1897 will be adopted by All Frederic Organic continged, there is a souther of the southers of the organic continged to the continged by All Frederic organic continged to the continged by the and resident programment and the continged by the continged by government agencies dealing with food safety.	01-Sep-15	28-Feb-18	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 face farmer's fields. Specifically the project aims to: 3 to assess the actual field performance of the found indivigence real transplanter allowing the formers 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 composition actual conference of the relative and quality unit. 3 for determine technical violating (matchine performance), economic violating (benefit-cost) and social acceptability (meanine operation and cost of the prototype, and the prototype and the prototyp	EA technically efficient, economically viable, and socially acceptable riding-type rice transplanter that is being manufactured by accredited manufactures. 3 Drafted FR claims ready for submission to PD Tellingbens prior to depoint not plot area set beproyed at least 3 (three) prototype units in the pilot area. (Lucto, Visaya, Mindrana) Extermined the readines of cooperations to peret and malitatine the responder 10 Extermined the technical performance and cost of operation of the detendines; 3 Empressed initial design of the developed technology 3 Detailed engineering drawing of the different parts and components of the transplanter 11 Trained at least 3 cooperations.	PhilRice	8 Farmen/Seed Grovens 8 Seed Center/Cooperatives 3 Infigitors Association 8 NGO's 9 Private Company (Local Manufacturers)	01-Nov-16	31-Oct-18	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 plot test the FIR paddy dyer using rice hull husk gasifier as a heat source.	1. 3 plot testing sites established 2. 3 manufactures trained on fabrication, assembly and installation 3. trained dryer operator farmers 4. Fedel PR claims and licensing of local manufacturers 5. detailed regineering drawings 6. cost-benefit and break even analysis	PhilRice	Farmers, farmer cooperatives, rice traders, millers, local manufacturers	01-Oct-17	30-Sep-19	NEW	4,997,557	1,673,876
	Pilot Testing of Impeller-Type Compact Rice Mill in Selected Rice Growing Regions	d Rapid, inclusive and sustained economic growth	General The project aims to evaluate the socio-economic and technical shalling and acceptability of the pieck commercial unto prospect end such as possible commercial unto prospect or Specific (1) To determine the specific operational and management requirements to safely and profitably suitable the developed rest mill technology. (2) To listenify various socio-economic factors that enhance/finder the utilization of the developed rice mill (3) To determine the economic implications in the use and adoption of the technology.	Il Draftot IPR claims ready for submission to IPO Philipiphes prior to deployment to pilot arises IS Deployed at least 6 (ski) prototype units in the pilot areas (Lucov, Visayas, Mindarinal) Determined the readiness of cooperators to operate and parformance and cost of milling of the technology. IS Stabilihed the physical characteristics of in contact of the rice in Ill Improved Initial disaging of the developed chronlogy IS Stabilihed prototype of the developed technology. IS Stabilihed the physical characteristics of in datalled engineering drawling of the developed chronlogy IS of the developed characteristics of the developed characteristics of the developed technology. IS Developed and updated user's manual of operations. IT Trained at least 6 cooperators.	PhilMech	B Farmer - Jermens-cooperatives - For the processing of their household regularizers (\$ a Custom feet in playartor - given an alternative type of rice mill with less operating and maintenance costs; and \$ ILocal manufacturers	01-Jan-16	31-Dec-17	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 11. Comparative analysis of the production and conomics of mussel using stake and longifer culture methods in different place is 2. Comparative analysis of the environmental effect of 1stake and longitime mussel culture farms Year 2.1. Enhanced protoco, immulus and EST for establishment of longitime 2. Information on the medium within impact (effect of mussel longitime nethod on yield. 3. Information on the factors production efficiency S. Policy recommendations for mussel culture 6. Publications production efficiency S. Policy recommendations for mussel culture 6. Publications	UPV	Private investors, fisherfolis, BFAR extension personnel, LGUs, educators, researchers	01-Sep-17	28-Feb-19	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
	Pilot Testing of Pre-, On-, and Post-, Harvest Facilities for Mango Production in Island Garden City of Samal (IGACOS) Davao del Norte	Rapid, inclusive and sustained economic growth	General To plack exist and assess the acceptability and visibility of the invocative technologies (pays) counter, furth picks and integrated posthurster facility) to the manage farmers, contractions and other agencies in IAACOS Secolfic Scondict at welficiatory field survey that determines pre, on, and posts, harvest needs of manage growers in the island Carden City of Samals. To conduct hand-on training on the operation and maintainates of the developed technologies and prototypes; Staffscate the developed technologies; and contractive of the contracti	a. Trained export mange producing farmers – One E11 progional mange producers cooperative based in Samal and another Cooperative to the helped to develop to become an exporting entity in Davac Orientals b. Exportable volume of mangees shall increase from baseline data of around 4M1 an estimated volume of 6M Tiper animary feet of nozine application of flower induction increases number flowers, Moreover, the technology relaxed the volume of chemical spray bosses by an much a 500 feet the recoverage of the Contractive Structure and contract increases and the contractive structure of the contractive structure s	USeP	BIGUI of IGACOS B Mango farmers in IGACOS B Mango contractual/ cooperators in IGACO	01-May-17	31-Jul-18	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 elejective of the piopics to establish a biognocess system for the piot scale production of Protein Enrichted Cyste Med [PECM] and determine its feeding usine in swine and positive, Specific Objective: 1. To establish and develop the process design for the pilot scale production of PECM 2. To test and optimize process conditions for the production of PECM at pilot scale level 3. To produce PECM at pilot scale levels and establish quality corner planements. X To perform self life studies and substitutions for Scale levels and establish quality corner planements. X To perform self life studies and substitutions for To evaluate production cost based on business models generated 7. To develop sustainability strategies for the procured equipment and facility enhancements made	and downtream processes of the plot scale production of PECM Year 2.1 Froduct uping that and performance of PECM in solvier and poultry its Intellectual Property (P) protection for the technology and product \$1 Permotion of PECM technology and Commercialization inflatives Generated unlines models for portioning PECM \$2 Developed statisticality strategies for the equipment purchased and facility enhancements made Nebiciation. As less \$1 published papers. Publications As less \$1 published papers. Perduct. 41 best 24 tions of PECM produced (after optimization) As less \$500 its PECM powder secondari. People and Services: Organized 2 trainings and 2 seminans for the technology 1 PECM Pilot Plate Facility. Peace and Partnership: 1 Established quality control and testing liabrotory At less 4 MOAs for feeding trial experiments At least 1 Technology transfer agreement.	UPLB	5 Swine and Poultry Farmers 3 Feed Millers and Processors 3 Copra producers	01-Nov-17	31-Oct-18	NEW	24,355,676	1,922,588
	Pilot Testing of WiltCure as a New Biocontrol Agent Against Fusarium Wilt of Solanaceous Crops	inclusive and sustained economic growth	The project a the continuation of the project on Development and Promotion of New and Inhanced Biodertillizers, Biodernitiers and Disposition for Increased Copy Productivity. It will deal with get utilization of Willicers as a new biocontrol agent against favarium with of formats, hot proper and eggolant in multicisation this over two cropping seasons. Feld testing with 6 ordine in Laguna, Quezon, Nieves Ecja which are major producers of the solanaceous crops that will be studied.	3 Year 1: Best application method, optimum dosage and frequency of application of Williture as a biocontrol agent against Fransimum will obtainaceous organ 3 Year 2: Validated technical and aconomic efficiency of Williture; increased capacities of stakeholders including farmers and technicians through conduct of trainings.		II Farmers, consumers, entrepreneurs, researchers, students	01-Oct-17			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 bread "Eargine native Chickens. Specificilizal), the project aims to: Swildate the breading efficiency and production performance of breader quality Zampen native chickens in larger scale at SEPFP and IHT-C2. Bestablish and evaluate the economic visibility of Zampen native chicken in commercial scale operations. Earlanne the dupability of that the clinical transcriptor SEPPP employees and inmates and IMCSC animal science faculty in establishing a sustainable native chickens production under the control of the science faculty in establishing a sustainable native chickens production under the control of the science faculty in establishing a sustainable native chickens production under the control of the science faculty in establishing a sustainable native chickens production under the control of the science faculty in establishing a sustainable native chickens production under the control of the science faculty in establishing as untainable native chickens production under the control of the science faculty in establishing as untainable native chickens production under the control of the science faculty in establishing as untainable native chickens production under the control of the science faculty in establishing as untainable native chickens production under the control of the science faculty in the control of the science faculty of the scie	3.9,000 quality day-old Zampen native chicks if 3.000 quality breeder Zampen native chickens if 30 ocon-to-be released immates trained in sciencebased native chicken breeding and selection of the property of the prope	WMSU	The project beneficiaries are: 8 Student, staff and researchers of VMXSU 3 Student, staff and researchers of VMXSU	01-Nov-16	31-Oct-18	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 growth	The project aims to conserve and sustain the productivity of existing natural sago stands in Mindanao through appropriate management practices and evelop pilot excle sago plantation in selected areas in Wisayas and Mindanao for sustained productivity and support devinding supply of sago starch from natural stands	Catablished 6 hectures of new sapp plantation. Rehabilitated 9 hectures of natural sago stands, Tanlead at beat 24 page prowers,f02 benchians. Develop 1 poer 61EC material plantage of protocol for managing natural sago stand and developing new sago plantations - Policy 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 study, will identify and sesses implies policy issues and concern crusial to resilience and sustainability assess facilitating and constraining factors related to 4 key areas of concern 2). Explore potential interventions and reforms needed to enhance enabling policy environment 3). Device institutional reductions that will footilist ensistation of policy ferrors of blentify resource required to implement needed policy actions (5) formulate and package identified major policy actions crucial to mellione and sustainability of watershelds of the policy actions of the policy action of the	1. Policy on institutionalization of Payment of Invenmental Services (PIS) 2. Policy institutionalization of Formation of Multi Sectoral Management Council 3. Guidelines for Promotion and Development of watershed-based comprehensive land use, allocation, development planning and regulation 4. Watershed Policy Forum 5. Two [2] Scientific pural policitations	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 divelop a low-cast inchnology arrepoints system for clean white potate seed production. Specific Objectives 17. To design an energonic scilling (generoluse and mick 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 exemposic potato seed production system; and 4. To compare aeropoints potato seed with conventionally-produced potato seed in farm trials.	lear 1: Started re-designing of existing greenhouse at DA-ANACLIXC and mini-greenhouse at IPB-UPL 8 II Started re-designing of existing greenhouse at UPB 3 Collected data on the growth of potable 8 Evaluated different nozzla/inity system in aeroponics 3 Started evaluation, optimization, and improvement of the CIP nutrient solution Year 2: BA prototype of a greenhouse and an aeroponic system specific for potato seed production 8 II Nutrient formulation for earoponics system for potato seed production winder Philippine conditions 12 Contract of the CIP of	UPLB, DA- NMACLRC	Highland vegetable 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 Gouts: Feasibility Analysis	Rapid, inclusive and sustained economic growth	General: This project anims to increase technology readiness of forage-based pellets for goat in preparation to commercialisation. Specific 1. To produce 3,000 kg each of two variants of forage-based pellets for growing goats and 4,000 kg each for specific goats and 4,000 kg each of two variants of forage-based pellets for growing goats and 4,000 kg each for specific goats and 4,000 kg each for specific goats goats goats goats and 4,000 kg each for specific goats goa	The following are the respected outputs of the project: A Production of 3,00% each of the two variants for growing goats and 4,000kg each for learning does. B) Feeding value of forage-based pellets to growing and lactating goats. c) Shelf life characteristics of the pellets. d) Design and packaging and application for copyright and trademark. e) Acceptability study. Feeding value packaging and application for scopyright and trademark. e) Acceptability study. No interest and a very study of the period of the	CLSU	Apart naires operating at 3 different production levels 50 goal or timer from 12 miles 130 members of association 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	Genezi: To support the commercialization of the RNA and RTA technologies through the conduct of pre- commercialization activities. Specific - To facilitate the filling of IP potection for the RNA technology and prosecution of the patent application for the RTA technology. - To evaluate the potential and determine the commercial viability of the RNA and RTA technologies. - To detaine the potential and determine the commercial viability of the RNA and RTA technologies. - To determine the market viability of the RNA and RTA technologies through the conduct of a full blown market study. - To determine the market viability of the RNA and RTA technologies through the conduct of a full blown market study. - To promote the schnology to potential adopters/investors through participation in various trade events, technologies and adultion.	Paople: I Market Study Report prepared, 1 Fessibility Study Report prepared, 1 Business Plan registered. The American Paper of Protection Patent: BNA technology applied for IP protection Publication: At least 2 IEC materials developed for promotional activities	MIRDC	Farmers, rice field owners and planters, agri-cooperatives and local faller cater shops	01-Jun-17	30-Nov-18	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 Mulberr (Broussonetia payrifera L.) L'Herit ex Vent) for Furniture, Handicrafts, and other by-products	/ Rapid, inclusive and sustained economic growth	General: Establish potential utilization of paper mulberry wood based on physics mechanical and processing properties. The utilization of this issues species can be appendial strategy for guidate the invasiveness of the species as well as take advantage of the opportunity to make use of the species as because and now material for the wood based industry and for indeplosed and enterprise of community where the process about where the process about about the process about a paperpoint as examining technique for graining unlaber recovery. It because schedules. 2 between the bending quality of paper mulberry for handcorfs and furniture production, see schedules. 2 between the process are schedules. 2 between the bending quality of paper mulberry for handcorfs and furniture production, bending the process and process and process and process and process and process and process and paper mulberry.	Year 1.18 GS base may of potential sources of rigs supply 1.0 tata on humber recovery and grading 8.1 Data on phylin-methical properties 6.9 Who bending quality reside for paper mulbers? Bestwood components for furnituse and handcrafts 3.00 din ching solesche for paper mulbers? Sensitated machining properties of paper mulbers? 8 Production of paper mulbers of handmade paper, charcol and prodignood injust that 2.3 Production and analysis on charcoling? processing of paper mulbers? 31 Terminal report with primer on paper mulberry processing and utilization.		Familium, handicarth, handmade paper and charcoal producen; private tree farmers	01-Apr-17	30-Sep-18	3 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 growth	1. To establish techno demo area on organic production of lowland vegetables, selected field legumes and fixed treets. 2. To showsase numery management on seedling production of lowland vegetables, beebs and fruit trees; 3. To disseminate organic vegetable production technologies to farmers, students, technicians and interested incluiduals	1. A Technology Demonstration Area for package of technologies on selected lowland vegetables, legames, herbs and fruits: 2. Conducted at lesst 2 field days.	BPI-LBNCRDPSC	Local and international organizations, local government technicians, farmers and individuals	01-Mar-17	31-Aug-18	3 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 (Perna wiridis) Nursery Farm in Tagkawayan, Quezon)	Rapid, inclusive and sustained economic growth	The primary objective of the study is to improve the mussel transplantation techniques for developing muscle farming inclusity in Quezon. Objectives of the study include the following: 1. Test developed transplantation protocol in establishing reproductive population. 2. Determine financial feasibility of using the transplanted mussels. 3. Develop management strategies for sustainable mussel transplantation	Year 1 3 Partnership with other State Universities and Colleges, LGU and other organization in mussel culture culture Year 2 Statablished transplantation protocol in reproductive population of mussel Standain Ambier of mussel transplantation in Taglawayan, Queron with or without transplanted mussel mussel publications, LEC materials filess or brochures of the refined technology	SLSU	There are many potential micro-enterpreneurs in the Philippines who cannot afford to conduct their own product development and who would welcome a new type of business activity. Other beneficiaries include musical farmer wordons, processors, exporters, researchers, technicians/extensionists, policy makers, and consuming public.	01-Aug-17	31-Jul-18	8 NEW	2,500,000	2,500,000
	Rehabilitation and Restoration of Typhoon-Damaged Research Facility of the PCAARRO 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	Request for a rehabilitation and restruction financial assistance for the PCAARRD Multi-Agency, Research and Development Program on Consensation, improvement and Profitable Utilization of Philippine Native Pig at the Marnduque State College in Torrijos, Marinduque Specifically: 1. To re-construct 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.	Re-constructed Infrastructures Developed forage Areas	MSC	PCASED MAII-Agency Research and Development Program Research Facility in Marinduque State College in Torrips, Marinduque	01-Mar-17	28-Feb-18	3 NEW	452,270	452,270
	Rehabilitation Strategies for Critical Mangrove and Coastal Forests in Coastal Communities of Western and Northwestern Leyte (COASTAL FORESTS REHAB PROJECT)	Rapid, inclusive and sustained economic growth	Assess the current socio-ecconomic and biophysical condition of the prospective imagenes and coostal forest areas which were as a basis in the destinization and implementation of alternative enhabilitation strategies. It is destinated to the control of the cont	big works and storm surges, and as training-demo sites for load communities. 5. Created and four grown and beach forest scale vollend opportunities for local communities. 5. Created and/or strengthered local PCs for coastal and mangrove forests management and protection. For the control of the control		affected coastal communities of laylays (Clyr in Westen Lynt, and Asside in Northwestern part of Lynt, Loca (governments at the berangur, municipal and city levels will also be benefited in terms properties such as training and in planning and of proper more consistent of the control of the	01-Aug-15	31-Jul-18	ONGOING	3,500,000	866,337
	Revitaling the Abaca Industry through S&T Interventions for Higher Crop Productivity Using High-Yielding and Virus Resistant Abaca Hybrids	reduction and empowerment of the poor	The general objective is to reinvigorante the abaca industry by improving the fam productivity to 1.2 mink/layer through the use of highly-deligned onliven-resistant abaca hybrids and its package of production technologies, thus improving income of abaca farmers. Specific: To assess the agronomic and commonly performance of new BTV-resistant backs hybrids in the multi-location trisk; to promote and distribute nationwide the propagated 2.5 million seedlings of the new BTV-resistant abaca hybrids, including in the Violanch-Air varsis, to further characterize and evaluate reaction of new BTV-resistant abaca hybrids to the other abaca virus diseases AET mosaic and for atom costs; and to determine the performance of he hybrids if employed with different package offschinologies, including drip impation and fertilization/ferrigation.	8 Assessed the abaca hybrids against other major disease II Stabilished 11 nurseries and 4 demonstration family family 10 Demonstration family abaca hybrids and not including drip irrigation/fertigation 8 Distributed 2.5M seedlings to 1,568 abaca farmer	BU, CarSU, CatSU, PhiFIDA V, PhiIFIDA VIII, PhiIFIDA XI, UEP, USEP, USM, UPLB, VSU, WMSU	Fameu-l/famer Cooperatives, nursery operators, Local Government Units (LGUs), and abaca processors	01-Mar-16	28-Feb-19	ONGOING	45,670,799	12,229,879
	Rubber, Coffee and Cacao: 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 excommissily important tree crops to all farmers in selecting the best sites in planting these crops. Specific devices include a) sessement of the performance of nubber, casco and coffee in different parts of the country, b) identify and determine the serior confined invariable for the growth, survival and goad yield of these projects, of everlop 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 vyield) of selected species in different areas in the Philippinion; of site flavorable for the plantation establishment of selected tree species; 3. Computer software for species-lite matching of selected species; and 4. Set of policy recommendations regarding species-lite compatibility.	ERDB	Rubber, cacao and coffee farmers, processors and traders	16-Nov-16	15-Nov-18	3 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	Cost	2017 PCAARRD GIA
	S&T Action Frontline Emergencies (SAFE) on 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 Maguindana by pleanting bamboo along the rivertaints	Products 3,0000 bamboo seedlings produced in the central nursery and sub-nurseries publications: 3 level Constraints justified and distributed to different beneficiaries (for barrappy difficials, for the peoples organizations and another one for the highs shoot students) about essentiate of students for barrappy difficials, for the peoples organizations and another one for the high students and food contral and one of the organization of the propagation and food contral and one of the organization of the propagation and food contral and one of the organization of the propagation and food contral and one of the organization of the propagation and food contral and organization of the propagation and provided p	MSU- Maguindanao	The target beneficiaries of the project are the famours, shemmen and residents long the 7 like Ris Grand not Meditabase traversity within the political boundary of the Province of Magnindrase and the small scale bambon entrepreseurs 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 Inoculant (TIM) for increased Survival and Early Establishment of Tree Crops in Cacao-Coffee Agroforestry System for the Aytas (Magbukun Tribe) in Kanawan Negritos Reservation Area in Morong, Bataan (Old Title: Establishment of Species-based Cacao-Coffee Agro- forestry System in Kanawan Negritos Reservation Area (KNRA) in Morong, Bataan)	Rapid, inclusive and sustained economic growth	General: To integrate the use of compost and Trichodemma microbial incoulant (TMM) in Ayea agroforestry yearten to ensure lybria ensuriant class and establishment of the recognism reforestations late and in farm loss of Ayet families in Kanawan Negrifo Reservation Area in Morong, Bastam, thereby presenting a long term substitude option for the Pia a well as conserving and expanding the remaining fromt in the reservation Specific 1) To improve the color, casco and orbor tree seedlings' survival and establishment in the grassland take (10 hb) and increase Ayet farmers' annual copy select (200 mil 2) with these of TMM and coops in their family farm lots, and \$1.00 continues reforestation of brush land (10 ha) contiguous to the remaining forest patches in KMRA.	 Change in attitudes and responses of the Aysts to the agricultural interventions presented by the project; Strategy for Ayst families' adoption of planning of coffee and cacso in their farm lost; 3.0% increase of yield of Ayes annual agricultural crops; 4. expansion of forest cover in the reservation from 28 ha sec forest to 30 hz, viable agroforestry system in the reservation; Year 2 	UPLB	The Maghuluin Aytas in the ISBA in Morong, Baltaan	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	Transparent, accountable, and participatory governance	General Dispertive: Develop and pilot test S&T-based Social Enterprises for the drug related vulnerable populations Specific Objectives 1. Describe the sociol-economic profile and specific circumstances of selected respondents from the Identified marginalized sectors of Ios Bafos 2. Determines their values, aspirations, skills and Inovoledge 3. Determines their values, aspirations, skills and Inovoledge 3. Celembing STarboard could enterprise that match their aspirations, skills and Inovoledge 5. Identify IAT benedict could enterprise selection that the values, attitude, skills, and Inovoledge 6. Identify STA broad social enterprises which match the values, attitude, skills, and Inovoledge 6. Identify STA broad social enterprises which match the values, attitude, skills, and Inovoledge 6. Identify STA broad social enterprises which match the values, attitude, skills, and Inovoledge 6. Develop and plate test SST based State business models or enhance existing ones 7. Forter multi-stateholder partnerships and indiges including glow makers for social enterprises in Ios Bafos 8. Grouve the sustainability of the project by fostering multi-stakeholder partnership and including linkager partnicularly with the IGU of Ios Bafos	drugs; 2. Aniessment of needs and opportunities of economic productivity and social integration of those considered vulnerable to illegal drugs; 3. Documentation of the values and appaintions of those considered vulnerable to illegal drugs; 5. Documentation of the values are supported to the values and apparent of the considered vulnerable to illegal drugs; 5. desmitisation of the rends and opportunities of the social enterprises in too Salbor; 6. Number of trainings and verfulness contacted for capacity bullings of social enterprise; 7. Business models developed and pilot tested for enhancing existing or new social enterprises; 8. Establishment or enhancement of multi-stakeholder partnerships and linkages for social enterprises into Ballos; 9. At least one paper for journal publication	UPLB	1. People who suremedered due to lifegal drug use and dug trading, including their family members 2. Municipal government of Los stafos, and especially the village study size. 3. Los LOS People's or community based organizations 4. Government agencies such as DSWO, PNP, 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 to the current 20/4/ay for 1200 (July Aris starting 2017) due to use of high yielding and virus-resistant hybrids (HVN); 2. To showcase the S&T based farming of abacs through the establishment of 2 demonstrations and furney farms for HVN abacs. 3. To provide common service facilities to the 4 demolfied barrangeys. 4. To build capabilities of beneficiaries through trainings. 5. To build and enhance active linkages with other NGAs, SUCs, LGUs, Garner groups, processors and market clients.	1. Exabilished from (4) nurseries for HTM absca. 2. Established two (2) demonstration farms at 0.5 hectare each for Wabasa. 3. Developed one (1) training mode on hydrid absca production. 4. One marketing agreement forged. 5. Trained at least 10 absca farmers and 10 personnel from partner member agencile/project staff on the approprises 52 Trainer-ventions for absca production (Training on absca fiber grading and dissification/jointing. 6. Improved cultural management and post harvest facilities - 1, Increased velocity for though the use of improved stripping machines as common service equipment in the four (4) barrangays.	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 livelihood to the disaster vulnerable communities of Region 1 using the Albah room production technology through 5 TCBF approach.	Product: Submiologies transferred; 9000 fruiting bags (3000 per province); 10,500 kg mushroom (5x500 kg) People and Sarvices: 3 farm dutters (1 per province); 15 technicisan trained (from RGU) and MG(U)! 55 trainings (5 trainings per province); 225 trainines; 3 laboratorics established (1 per province) Places and Partnerships: 4 MOA/MOU signed (1 per province; 205 U-GSU-Usetz- and 1 MOA among 80/Cs); Publications: 3 Eld materials developed; translated and distributed (3 x 1000 = 3000 copies); 5 training modules; Partners: 3 publications with copyright.	UNP	-Farmers - Frahermen - 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 objectives: This project aims to promote caso IVI were plantations for a Climate Charge Primed and Statistanble Carp Production in Buildann's Alventher Mindeau through the Science and Technology Community-Based Farms (STGB) approach. Specific Objectives: To it ostabilish one be hextare organic caso IVIV build wood garden and nursery (accredited by BPI) in CMU, Buildanion; b) To capacitate the rural people of Buildanion in organic caso IVIV build wood garden and nursery (accredited by BPI) in CMU, Buildanion; b) To capacitate the rural people of Buildanion in Organic caso IVIV buildwood garden and nursery potentions in distrepoping with antiferrophysis with antifer	lear 1 s. Established and maintained at least eight linkages with various caso stakeholders; b. Organized four (8) clusters of 37 acao farmers from four (8) municipalities; c. Capacitated at Beast 42 caso farmers, CMU staff, and (3) extendisms on caso namers, budwood garden and plantation establishment and management. 4. Established onehectare accreded caso nursery and budwood garden under the CMU management e. Promoted caso nursery budwood garden technologies thus Technology Feld Day and/or cross visits; Developed, translated and/or discribed at least of the Compacitate	СМО	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 upcade the application of S&T interventions and expand the area for nather through massive production of high quality glanting materials, thereby, increasing productively of haber in Sasian Province, Septicil objectives: 1.10 promite valer dapplion of the recommended technologies through the community-based STBF modelity of at least 10 no haber farmen, including members of 3 A&B cooperatives; 2. Catabilità central nursurs and budwood gardents that elicit card not suited provents and would be growers by 2015 onwards; 3. Assist the agration refrom beneficiarie (A&Bs) cooperatives for surving out new cloves that could be used in the expansion and rebibilition of robber farms in Sasians. A Assure nabber growers with highly productive and certified clones; 5. Encourage small productive and certified colores; 5. Encourage small productive and certified ce	a. Established one accredited nabor russery (I). S ha) and budwood garders (I). S ha) as an inconnection relative frogram under the management of Basian State College, Sta. Clara Campusci, on Organized four Custed on Other State College, Sta. Clara Campusci, on Organized four Custed on Other State College, Stat. Clara Campuscia and processing in those four barrangeys of Lamitan City, C. Capacitated 30 SEC (Id) staff, existing anarray operators, Club Cherickians and interested nursure operators, Clic Cherical Campuscians on various skills related on nursery and budwood garden establishment and management; G. Capacitated anound 65 farmers Cult Userbnicissa and interested insultable on various skills related on rusber plantation establishment and management; G. Established and instituted at least time halages with a Established commentation form (I). On better eachly for indeed plantation, production and establishment and management; G. Established and instituted and better the halages with a Established for dismostration form (I). On better eachly for indeed plantation production on establishment and the plantation of production better charge in four barragpes of Lamitata Chip, samely, Lumidon, Botheyawas, Sac. Clara and time-of the control of the Chip of the	BASC, DOST ARMM	Rubber tree growen/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 bantoop production in Maasin, libido as an ecotourine declination; and the state of the		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 rectalise the Ris industry in Northern Samar and onhance the capabilities of Pill Samers in rusers and orchand management. Specific: 1. To establish and operate two hyshono-resilient Pill nursery and solon growe of one hoctare per site for the prospection of high yielding Pill pill printing materials. 2. To distribute and prospage 20,000 Pill septime, materials. 2. To distribute and prospage 20,000 Pill septime, materials. 3. To distribute and prospage 20,000 Pill septime, materials. 3. To distribute and prospage 20,000 Pill septime, materials. 4. To train and septime the septime of the septime septime septime septime. 4. To train and sasist the farmer cooperatory/beneficianies in the establishment/resistabilishment, nursery care maintenance of Pill sems using recommended cultural management practices. 5. To develop a protocol for nursery and orchard establishment and management available under local conditions.	Regide and Services. J.DOE former beneficiaries (congressors.) I trainings conducted on: 2 houses catalobilinerus of excellablement and ord-tend management conducted. 2 policy conforming to IGU conducted at the end of project, 2 existing UEP Nursery and Sociois Groove to be utilized and rehabilitated. Partnerships, finingage to be established between the IGUs, Academe, NGAs and Partnerships. 4 partnerships, finingage to be established between the IGUs, Academe, NGAs and Georgia and Conference of the Confer	DOST Regional Office No. VIII	Pil farment, farment '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 name and uplift economic status of small scale farmers. Specific. I. To premise where shades profit on the recommended technologies for disynanthermum production through the community based STBF modality. 2. To increase production of Class Ask (80 cm length) quality through the community based STBF modality. 2. To increase production of Class Ask (80 cm length) quality one of LTF strength one or party port dynamic many production. The character the caller principation and empower the farming communities and local organizations of La Trinidad in promotting the application of ecommended technologies to improve mum custlower productivity.	Product: Improved quality of spray mum cutflower People and Services: Custered & trained farmers Places and Partners(spr.; Joneges partners) with LGU- La Trinidad, LATCOGA and BSU- Places and Partners(spr.; Joneges partners) with LGU- La Trinidad, LATCOGA and BSU- Places and Partners (LGU- LGU- LGU- LGU- LGU- LGU- LGU- LGU-	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 Inproved Nursey 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 allowaceas the recommended budwood garden and nursery management and intercoping scheme to improve the productivity and profitability for the nubber smallholders in selected plot areas of Makilakia and tidapowan Chiyn Cichabaro province through the SST Community-Based Fem (SCBI) approach. Specific Diopictives. 1. To integrate SST interventions into existing budwood garden and minery services. See the Community-Based Exp. ST interventions into existing budwood garden and minery services. See the Community-Based Exp. ST interventions in the section of the community services of the community services. The community-Based Exp. ST interventions in the province and in other potential areas in the region. 2. To promote the services during exastersis for the expansion of rubber plantations in the province and in other potential areas in the region. 2. To promote the services the best practices in other draws and the services of the services o	13 Organizated the 10 nurseary operators (three of which represent existing cooperatives) from the unincipalities of Malisha and Kidapawan (from two Outsters with Semethers each; 2). Organized the 5 nubber farmers from the municipality of Kidapawan City into one cluster to advanced the 5 nurseary operators from the municipality of Kidapawan City into one cluster to 10 nurseary operators from the municipality of Malishia and Kidapawan City into the establishment of 10 nurseary operators from the municipality of Malishia and Kidapawan City on the establishment of 10 nurseary operators from the municipality of Malishia and Kidapawan City on the establishment of 10 nurseary operators from the municipality of Malishia and Kidapawan City on the establishment of 10 nurseary operators with binary cuffered and can as sourcer of supplemental income ——at least 15 nulber farmers per year; 5] Establishmed a least ten linkages with nubber statebooker, numely F. (KOLGABAS, LGLD: Kidapawan City and Malishia F. (Sarabas) and Kidapawan City and Kidapawan City on City and Kidapawan City and Kidapawan City on City and Kidapawan City and Kidapawan City on City and Kidapawan City on City and Kidapawan City and Kidapawan City and Kidapawan City on City and Kidapawan City and Kidapawan City and Kidapawan City on City and Kidapawan City	USM	Rubber nursery operators and Rubber tree growers/farmers	01-Jan-16	31-Dec-2) 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 aims: 11 for pormod wider adoption of tested/recommended highly rieding Rice Integrated Crop Management (IOA) practices in rice production through STMF modally 2) to achiese 5- 20% increase in yeld-during wet and dry assours through the use of bear highly rieding integrated and hybrid rice varieties and pre-identified and tested BMMP, on rice 3) To further capacitate the trained farmer cooperator and farmer adoptes on improved rice and rice production package of technology 410 create and strengthen integriphartness high 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, Tarks 2) Obtained 30 tons (DS) and 8 tons (WS) from rice production through use of best high yielding indeer and prylerisorities and pre-identified and tested BMPs on rice 3) Capacitated farmer beneficiaries on integrated farming systems 4) Established inlages/partnership with local and institutional markets and other stakeholders	PhilRice	Roc farmers	01-Jan-16	31-Dec-1:	8 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 economic advantages of applying the package of technology (POT) nisk commercial scale image farms, Specifically, the project sims? I be promote wirest adjoins on the POT on margo through the STME modelity, 21 to capacitate the farmer cooperator and adopters on improved on management and practication manage organizations; 1) the scaled collaboration and coveragence of commercialization of the SST interventions.	1. Established STMF adopting the POT for mange consisting of 300 fruit bearing trees (10 years of 20 years) and the process of	BPSU	15 Margo growers	01-Mar-15	31-May-1	7 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	a. Asset productive contamination from the Fuluschina Dalich nuclear power plant accident (FDNPPA) to the Philippine. Asset ph	Place * A laboratory for 129/127 analysis Publication * 2 local and 2 international conference presentations. * 2 local and 2 international conference presentations. * 2 log publications Policy * Publication guidelines for radionuclide contamination from the Fukushima accident to nonrheastern Philippines and for similar future incidents	PNRI	Regulatory Bodies, 1GUs, Research Institutions, Academie, and the General Public	15-Sep-17	14-Sep-2) 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	Sucky the shelf-life and stability of the generated artises to determine the stonability 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 antitions at ambient from temperatural and cold storage conditions, Chaptaging materials in aministrating activity of the antisers during storage, 48 ml of ABTV antisers; and Cost and return analysis	VSU	Tissue culture laboratory operators, shake growers, nursery operators and BPI personnel; extension workers, researchers	01-Feb-13	31-Mar-1	ONGOING	2,008,508	26,400
	Socie-economics of the Emergency Agricultural Food Supply Chains for Internally Displaced Persones (IDPs) affected by the Marawi Crisis	Rapid, inclusive and sustained economic growth	To contribute to the Government's efforts to alleviate the condition of Marran's intermity placed persons through an inter-agency colaborative effort. Specifically, the project aims to provide relief assistance to interruly displaced women and children affected by the Marran's Sege in Rigan City.	People & Partnerships 18 MOA/NOU signed with GUIs 18 MOA/NOU signed with other stakeholder/partners People & Services 3 Project team members (staff & LGU) properly coordinated and membered members (staff & LGU) properly coordinated and membered members (staff & LGU) properly coordinated and membered members (staff & LGU) properly coordinated and members (staff & LGU) properly staff (staff & LGU) properly coordinated and members (staff & LGU) properly staff (staff & LGU) p	MSU- Maguindanao	Direct: Internativp Displaced Households Indirect: PLGU and LGU Coordinators	01-Sep-17	31-Dec-1	7 NEW	4,999,680	4,999,680
	STCBF on Sutainable Mango Production in Pulllan, Bulacan	Rapid, inclusive and sustained economic growth	General To increase the profactivity of mange growers and upscale the application of science and sturchology (SR) Interventions on mange from a infallum, fallum, and Specific. a To establish technology demonstration mange orchards that would showcase the different schemologies that we expliced for the major conducts, it To enhance quotaky and active applications of the organized mange cluster of local partners in improving productivity and in disceminating the schemology. It I provide the most appropriate technologies on Intervend management practices that would increase yeld through collation with other agencies and the SAT community-based turns modality, and 4. To evaluate the profitability of the SAT intervention through cost and return analysis of each mange orchard.	Ladiatry Level One 1; Il mange-bissed farm disater adopting S&T-based intervention on mange production Established SCER's using the S&T interventions for mange production in a total of around 10 hour dars are 1,0,000 ren's in Pullan, Bulasc in improved management particles in mange production of 20 farmers Average increased yield by 10-15% per season (from 12.1 MT ha 1- baseline average yield statistic from plans 1 of the SAM-20-15% project, by 10.3 MT ha 1- 20.15% and 11.03 MT ha 1- 20.17) Produced quality mange first Mange growers Index to instational buyers capacity failability and the state of the state	BASC	30 cocond famers in Barangay Lawaguin, Nagcarlan, Laguna	01-Nov-15	30-Jun-1	3 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-PCAARRO Innovation and Technology Center (DPTC)	Rapid, inclusive and sustained economic growth	1. Provide technical advice and support in evolving appropriate messaging for PCAARED's awareness and information disconstition tools. 2. Provide guidance in the following areas of the communication planning process: a. Need analysis. b. Pretesting of the materials. c. Pretesting of the materials. c. Pretesting of the materials. d. Development and implementation of communication materials distribution plan, and e. Monitoring and Evaluation. Finalize and prepare for reproduction of communication materials that can highlight and strengthen the relevance of PKAD intitatives in overall national development agenda, and c. A forest sustainability for conducting a series of cipability-building training-workshops for DPTC staff on network appetits of materials development and production.	1. Communication Flam for the DPTC 2. Communication stagles and communication support materials as may be identified during the workshop (e.g. resolutions; incohures, compendium, etc.) 3. Face (§ Alado-imal percentations) (eds documentation) of S&T products and R&D initiatives 4. Trained PCDAMID Staff and consortium partners	UPLB	o	08-May-17	07-May-18	NEW	1,800,000	1,800,000
	Strengthening the Partnership of the Consortium and the Stakeholders in Western Visayas to Promote S&T Action for Emergencies and Risks in the Agriculture, Aquatic and Natural Resources Sector		General To strengthen DOST and PCAARRD programs, projects and other tie-ups through closer partnerships and collaborations with each of the DOST Regional Offices across the nation Specific 1) To enhance or AARR technology formal efforts in the regions through increased partnerships of PCAARRD and the DOST Regional Offices; 2) To promote more SST innovations and strategies expectably those supported by PCAARRD and/or DOST to the AARR section For countryinged and development 3) To strategiate the involvement of DOST and assist PCAARRD-funded technology transfer activities and projects in the regions, particularly, during periodic reviews and monitoring and evaluation of technology transfer endoarous.	Packaged and approved at least seventeen (17) technology transfer and promotion projects in 17 regions. 2 Assisted at least seventeen (17) communities across the nation, 3) Strengthered ferentwork and liskages with the 17 regional officer. 4) Forged and signed seventeen MOAs with the DOST regional offices.	DOST Regional Office No. 6	to assist communities in emergency- and hazardaffected areas, marginalized farmers and fisher folis, upland dwellers, indigenous communities, garden referm beneficiaries (MSRF), even drug rehabilities, si, well as groups of women, out of school youth, section/yellers, refer termenes, specially those from the poorest of the poor provinces in the country	15-May-17	30-Sep-17	NEW	300,000	300,000
	Suitability assessment and database development for enhanced mussel culture management using geospatial technologies	Rapid, inclusive and sustained economic growth	The project will saxes and analyse suitable areas for muscle citative in the Philippines using available groupstall technologies, Sepcificially, 1 Leichrigh potential stellar (including non-traditional areas) for muscle citative based on established criteria; and 2. Develop of database to identify suitable areas for muscle Culture	Year 1.8 Identified/Surveyed potential sites for mused culture. 1 Mays of morthly throphypile, see survive, temperature and sitellity in the Philippine area Year 2.8 G/S-based maps of suitable areas for mused culture in the Philippines based on physico- chemical and biological parameters 3.0 batabase for suitable areas for mused cultur.	UPD, UPV	The present research initiative is formene to augment the program is providing the ball information and management decision to alanously policy makent/second-tens/regulation and stakeholders. Other stakeholders that would benefit from the results of the projects includers: Private investor is installed area, filtered how will be culturing musse for supplemental healthook, BFAR Sciention Personnel, and Local Covernment Unit and education/Researchers	01-Jul-16	30-Jun-17	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 growth	To provide support to RDI in their request for fairness opinion by the DOST Society as a legal requirement for furtherhology transfer schicker of preservent-when remark 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-18	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	n Rapid, inclusive and sustained economic growth	General Objective: To implement the Freedom to Operate Analysis of PCAA8RD-funded technologies. Specific Objectives: A. Rasiss PCAA8RD and the technology developer(s) understand the threat of patent litigation on a particular technology. 2. Assess the potential of a technology for commercial application; 2. Assess the potential of a technology for commercial application; 2. Assess the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application of a technology, marketing, and use of the new product, process for insure than the commercial application. 4. To reminist from TAIP, PCASERD, OCT RIDS and OLICs with PCASERD-funded projects on FTO; and 5. To establish an FTO Link at TAIP-OCT.	1. At least 14 fectinologies are assessed for freedom to Operate 2. Trained 25 DOS Fessional and SUS Researchers on FTO review 3. Established FTO Unit at TAPI-DOST	TAPI	PCAABB Management and Secretarist / Research Partners/Network of PCAABB D	01-Oct-16	31-Mar-18	ONGOING	5,000,000	1,010,324
	Sustaining Crop Productivity in Climate Vulnerable Areas i llocos Norte through STCBF on Climate Resilient Technologies	n 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 realient crops, PH and markeful for the commodity crops for scatamidal production. Developed, efferes and care-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 various crops resilient varieties; 2. Increased farm productively through utilization of integrated appropriate crop based faming 2. Increased farm possibility of 500 state-below facility of 5	MMSU	community members from the different drought, typhoon flood- striken municipalities in floods Notice.	01-Jul-17	30-Jun-19	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 assess the research outputs from projects that received funding support from PAARRO on this tage or level of readines for commercialises for commercialises for commercialises. Specifically, to determine if PAARRO-funded research projects have potentials for: (1) intellectual property protection; (2) commercialisation, 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	PCAARD Management and Secretarist / Research Partners/Network of PCAARD	01-Oct-16	30-Sep-18	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 size to demonstrate matured technologies on regelable production through modalities in a year-count basis taking into consideration the principles of productivity, creativity, and soft-included to the production of the production of the production of the production of the soft-included contains, organizar, pole sizes, and bitter goard; 2.1 so showcare NGC opported lovation and open-golillated varieties of vegetables, use of biological control agents, botanicals, microbial incoculants, and other matured production technologies, and 3.1 op promote conomically-viable vegetable production through trainings, field days, and distribution of IEC materials.	1st year—established a technology demonstration area for POTs and serve as a learning senue for actual viewing of the public 2nd wear Increased and the public 2nd wear Increased number of POTs implemented in Technology demonstration area. Catered violitor from various section. Techno-trainings with on-farm immersion activities in the technology demonstration area. Section 19 of POTs implemented in Technology demonstration area. Catered violitor from various section. Techno-trainings with on-farm immersion activities in the technology demonstration area. Portfaelbilg analysis of an organic and a conventional viegetable production. Developed ICE materials for distribution to clerifieds.	BPI-LBNCRDPSC	Izeal and international organizations, students from state colleges and universities, local government technicisms, famous, and a superior state of the state of the state of the state of the state of the and technologies on vegetable production.	05-Jan-15	04-Jan-18	ONGOING	4,999,365	1,122,518

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	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 PCUARDO funded projects. To Classify the machines funded by PCLARRO funded projects that are ready for commercialization with security programs. The project of the projects of the projects of the projects of the project of the pr	Methods of Yest for the following machinery shall be developed: a. Millifain Automatics (For Counter b. Millifain Methods (For Counter) b. Millifain Methods (For Counter) c. Drip Impation System c. Pringston System c. Storage for Penant b. Fred Prelitate c. Sougheat System c. Sys	UPLB	Technology Generators (SUCs, ADIs) Technology Adoptics (Machinery users, 3 Other Agricultural Machinery Industry Stakeholders	16-Jun-17	15-Dec-18	NEW	2,126,931	2,126,931
	Towards a Strengthened Technology Commercialization Process through Facilitation and Preparation of Business Plan of PCAAARRD-Generated/Assisted Technologies		General: To strengthen the technology commercialization process through the development of appropriate market To strengthen the technology commercialization process through the development of appropriate market proposed becomes plant for specific agriculture/aqua industry-based technologies funderd/generated by DOST through PCAASID. Specifically, the project alms to: I forume appropriate matching and engagement between consultancy firms and innovators, following pertinent government rules and grocesses in acquiring and involving consultancy services of firms; 2. Serve as Nation Undernal amongst concerned stabeloiders for the delivery of captions and 3. Strauce the timely and quality preparation of business plan and technical reports through efficient monetoring and validation activities.	L Militäri and Svirino Automatis Surface Feeder Progle and Survices. A text 13 Busines Part for CAAARED generated/assisted Technologies, at least five project staff frained on procurement process least five project staff frained on procurement process Patterns: 15 copyrights Patternships: PCAARED-1API partnership; at least four TAPI-service providers partnership Patternships: PCAARED-1API partnership; at least four TAPI-service providers partnership	TAPI	- Technology Adapters/Inventors - Technology Generators - Research and Development Institutes/State Colleges and Universities - DOST (particularly PCAARRD and TAPI)	01-Jun-17	30-Nov-18	NEW	4,920,085	4,484,409
	Toxicological Study and Pilot Teating of Nutrio** Biofertilizer for Improved Production of Sugarcane in Regions III and VIJOIA Title: Toxicological Studies of Newly Developed Biofertilizers for Various Crops)	Rapid, inclusive and y sustained economic growth	Centrals. To conduct toxicological study of Enterobacter sacchari S18, the microbial component of NaturiON to ensure the biosafety of the microbial component of NaturiON to ensure the biosafety of the microbial component of NaturiON to ensure the biosafety of the microbial study of NaturiON to the NaturiON to Sugarcane in Regions till and V. To assess the safe use of NaturiON for sugarcane production of Sugarcane in Regions till and V. To consult polit testing of NaturiON for Sugarcane production in Regions till and Vt. To NaturiON toxicology of NaturiON to Sugarcane production in Regions till and Vt. To NaturiON toxicology of NaturiON to Sugarcane production in Regions till and Vt. To NaturiON toxicology of NaturiON to Sugarcane production in Regions till and Vt.	1 Year 1: Data/information generated from the results of toxicity faces of hadrichty 1 Year 2 and 3: Validated technical and exonomic efficiency of hadron bloeffeliers, researced expectices of stakeholders including farmers and technicians through conduct of trainings; pindage of humo biofertitizer technology for sugarcane.	UPLB	8 Farmen, consumers, entrepreneurs, researchers, students	16-Nov-17	15-May-20	NEW	5,000,000	2,348,747
	Use of Carrageenan Plant Food Supplement (PFS) for Selected Cool-Season Crops (lettuce, broccol), cabbage, and strawberry) in Protected Production System	Rapid, inclusive and sustained economic growth	General Try determine the effect of fallia carragement PTS and synthetic fertilizar combinations on the synthm, quality, and yeld of relevated cool-season crops (lettuce, broccos adubage, and strasberry) under greenhouse conditions. Specific 1. To evaluate the effects of various levels and frequency of carragemena PTS applications on the growth and yield of selected cool-season crops; 2. To identify the optimum levels and frequency of carragement supplication in maximary evided of the text crops; 3. To evaluate the effects of carragement supplication in samalary evided of the text crops; 3. To evaluate the effects of select of carragement PTS on the quality of produce; 5. To validate preliminary text results in selected farmers? felds; and 6. To conduct a benefit cost analysis on the use of carragemena PTS in the production of the selected crops.	Is increased yields of the text rough, by a least 20% per crospine b. Reduced quantity of chemical ferritiers use by a meh a 25%. Reduced requirement and one of intecticides by a mixture 25% d. Improved quality of produce in terms of upgar and nutrient contents without any contamination. Everifier cost analysis of the proposed intervention L. If cruaterials and scientific page on the use of carragerenan PFS in production of selected crops g. Conducted training of farmers on the use of carragerenan PFS.	BSU	Slocal fermion segaged in the production of code-secon crops it seawed famours and processon who code benefit from the increased demand for their products it consumers who would gain access to safer and better quality finals and vegetables	01-Oct-16	30-Sep-18	ONGOING	5,000,000	2,819,992
	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 private-public partnership asyres to promote unitation of the newly developed pern emitter technology in breeding and selection in local view population to increase productively and improve production efficiency of the Philippine swine industry. 1) Promote the utilization and adoption of molecular methods of selection by local swine raisers to improve profilicary and production efficiency that 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 (purpose GGP, GP) and commercial herids. 3) Provide assistance in the use of genomic information in the breeding program for individual herids.	1) Adoption of the gene marker technology by the valve industry 2) Felly opportunal savine genetic analytical service laboratory for the defentification of policies genes and screening genetic defects of swine 3) Laboratory to screen swine genetic diseases. 4) Science based data for the formulation of enabling policies for the swine industry to improve its productivity and efficiency.	PCC	1) Suive Breader Farms 2) Pork producers (Commercial Farms) 3) Academie 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	Increase yield in vegetable production by 30% through the use of low pressure drip irrigation technologies	**ILLine coult, modified dispiragition system for onion and gains for both off-season and on- season production Wilderfringsiston management system. **V2: Increased yield of good a polity onion and garlic by 30%. Increased water use efficiency in gains and only modulation by 30% 200 farmers trained Training module and technoguides for onion and garlic production.	CLSU	Onion and garlic farmers © Researchers, agricultural technicians, students ® Government agencies, research & academic institutions	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		The project will produce plant-based products a anti and pro-cuidants for farmed	Protocols for improved health management of Tilipsia. Products for better performing tilipsia.	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

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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	sustained economic growth	This project forms part of PCAABRD's Technology Transfer Pathway, wherein outputs of which would determine the fact of the ubjected research projects and technologies whether they shall be commercialised or can only be discernised, promoted, or miled out for fee to intended beneficiaries. Herohologies would be commercialised, the whole of the technologies which will be offered to potential adaptors. Mould be determined: Tagether with appropriate it protection this would provide great heretge DPCAABRD and/or its R&D institutes (RDI) during licensing negotiations. Likewise, the Fairness Opinion Board (FDB), specifically requires technologies to be valuated prior to securing a Sinness Opinion Report (FDB). As such, this project will cater to valuation of IPs in partnership with the private firms conducting technology valuation. Objectives: To assess the value of the research outputs from projects that received funding support from PCAABRD.	16 technologies valued within 2 years		PCAARSD Management and Scretzein / Research Partnern/Network of PCAARSD	01-Oct-16	30-Sep-18	ONGOING	5,916,899	1,667,307