



Consortium Director's Report

December 2022 – March 2023

Accomplishments

R&D Management and Coordination



113th RRDCC Meeting cum Year End Review

- Held last December 2, 2022 back-to-back with the SMAARRDEC Year-End Review
- Presided by RRDCC Chairperson Dr. Lourdes C. Generalao
- The meeting was attended by heads/representatives of CMIs
- Twenty-one (21) DOST-funded projects presented and eleven (11) research directors presented the institutionally/other agency funded projects



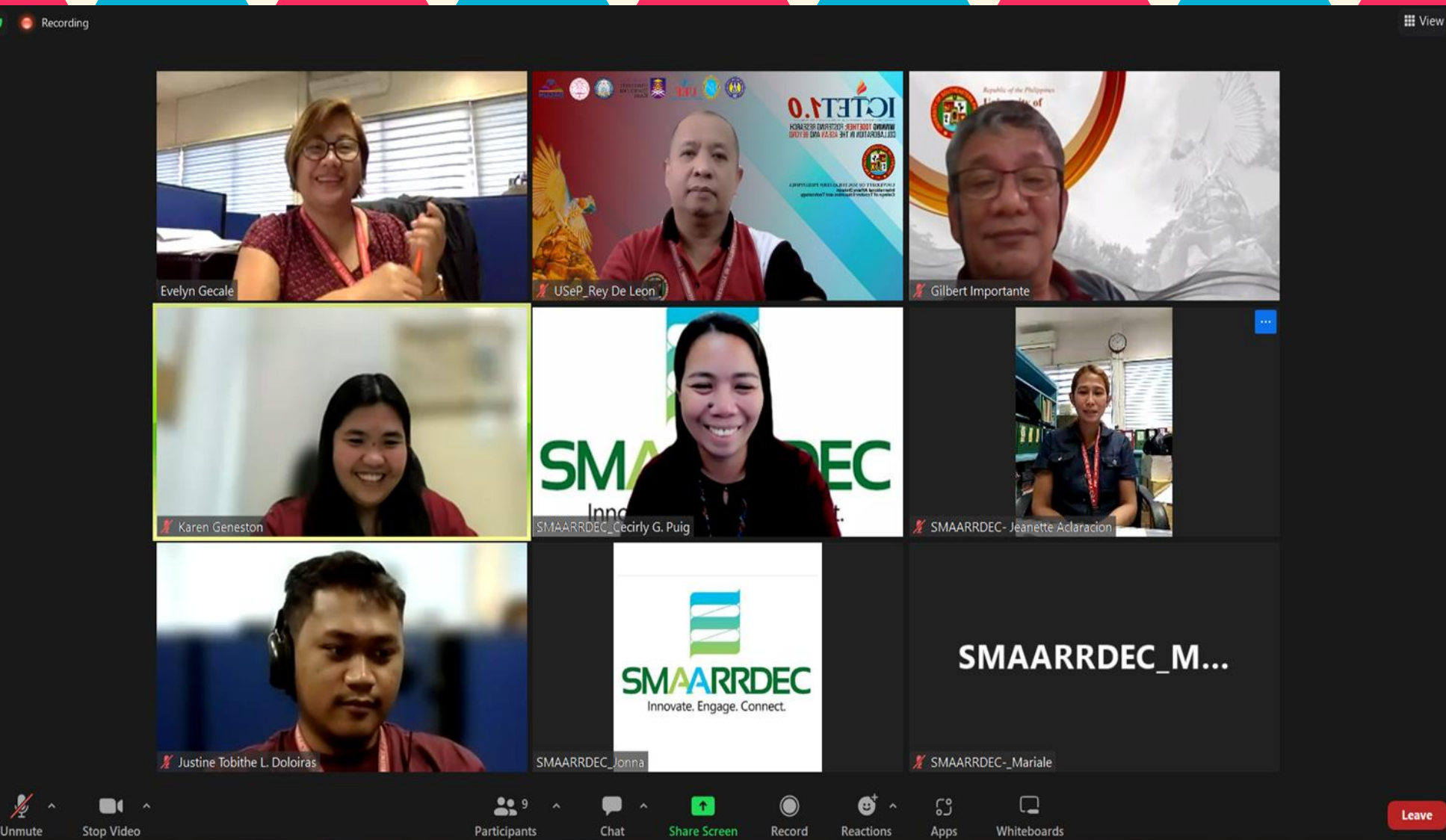
Secretariat Meetings

Held on 9 January 2023 via Zoom

Discussed SMAARRDEC year-long plan

F2F meeting held on 27 January 2023

Finalized the RCP 2023-2025 Workplan and activities



CLSU Researchers Visit at SMAARRDEC-DDSC

- Mango Researchers- Ms. J Laforteza and Ms. J Saturno from CLSU conducted Focus Group Discussion (FGD) with the mango growers of Davao del Sur on January 19, 2023
- Introduced mango value adding technologies that could be adopted by the mango growers of DavSur



Regional Center of Expertise (RCE) XI

The Consortium Secretariat participated in the launching and planning of the Regional Center of Expertise (RCE) XI which is being hosted by DSSC, on January 26, 2023.

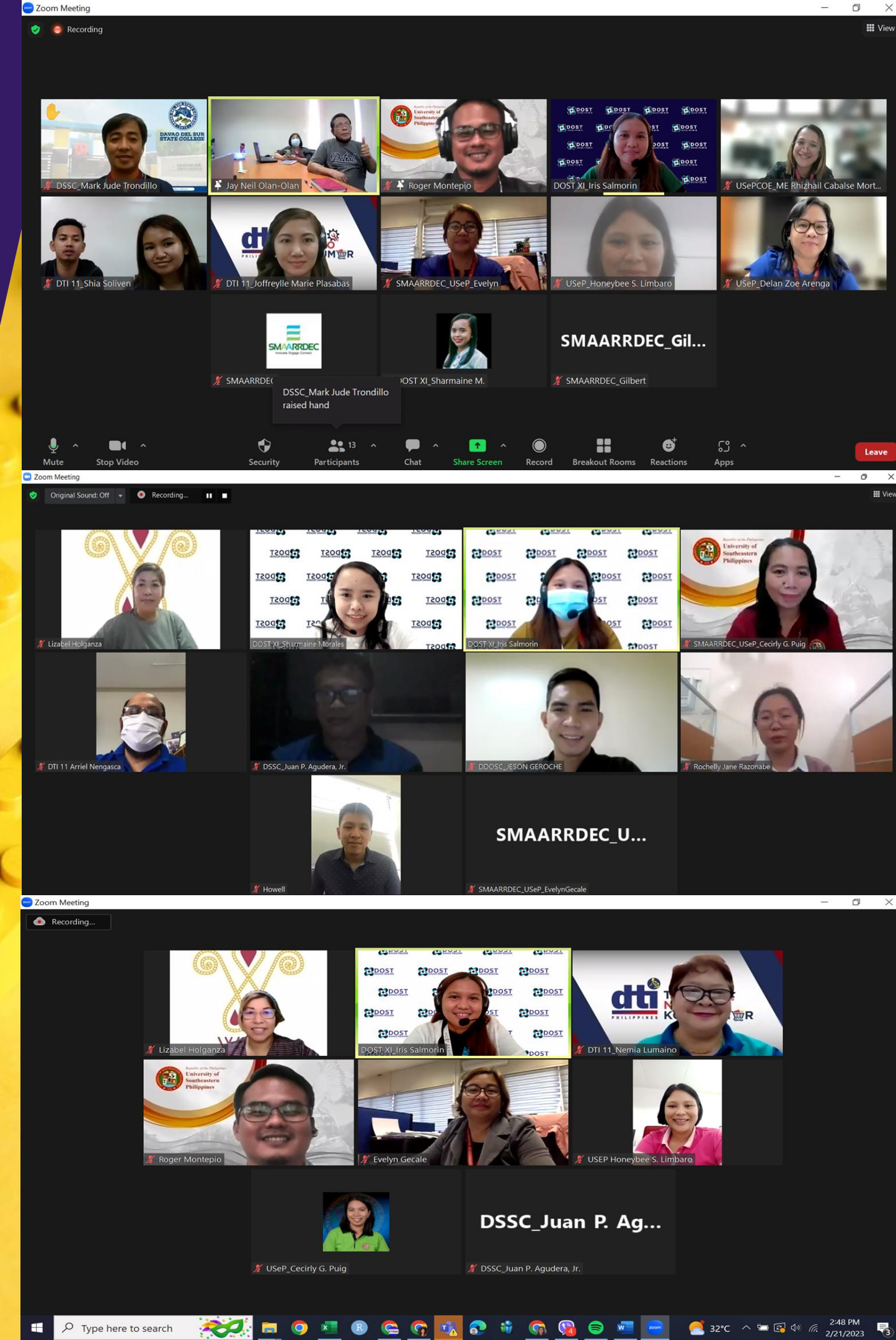
The RCE XI shall oversee the implementation of SDG programs and projects.



Series of meetings for the 3Cs through iSTRIKE Davao

(Cacao, Coffee and Coconut)

- January 27, 2023
- February 9, 10, 2023
- February 22, 2023
- March 9, 2023



Series of meetings for the 3Cs through iSTRIKE Davao

As an off-shoot of the meetings, the following proposals were crafted:

1. Development of a Smart Post-Harvest Processing Facility for Cacao Beans at Biao Agrarian Reform Beneficiaries Cooperative (BARBCO)/RCMontepio/USEP
2. Development Pre- and Post Harvest Smart Monitoring System for Cacao Production (with Gran Verde Farm/RCMontepio/USEP)



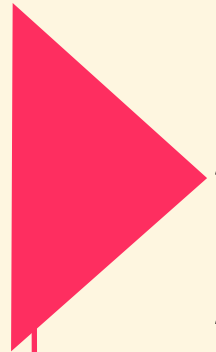
Series of meetings for the 3Cs through iSTRIKE Davao

As an off-shoot of the meetings, the following proposals were crafted:

3. Development and Evaluation of a Smart Coconut Sap Harvesting and Storage Equipment (with Cocolink/RCMontepio/USEP)
4. Development of Smart Post-Harvest Systems Facility for Coffee (RCMontepio/USEP)
5. Microbial degradation of plastics for Soil composts/enhancers and fertilizers for Vegetable crops (AMFernandez/JMC)



Attendance to: NEDA XI MEETING



***From Plan to Action: Philippine Development
Plan 2023-2028 Forum***

Held on January 30, 2023 via Zoom

EDC Meeting

Held on 8 March 2023 at NEDA XI-

Bangkal Davao City

COORDINATION MEETING CUM REORIENTATION ON Consortium Operation and Techno Gabay Program

Held on February 1, 2023 at AVR, CIC Building, USeP, Obrero, Davao City
Attended by CMI Research and Extension Heads and/or Representatives



BANANA TEAM MEETING



Held on February 8, 2023 via Zoom



Discussed proposals to be submitted to DOST-PCAARRD

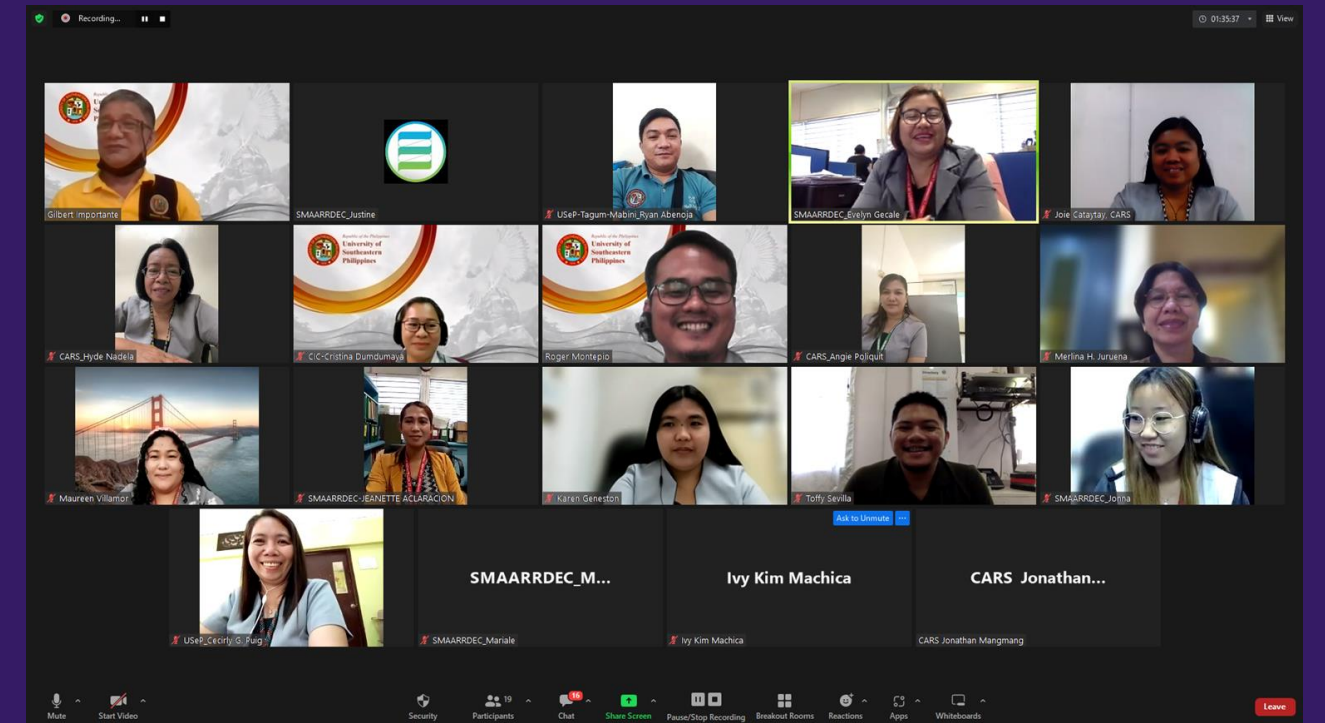


Facilitated by Dr. Cecirly G. Puig
– SMAARRDEC R&D Cluster
Coordinator



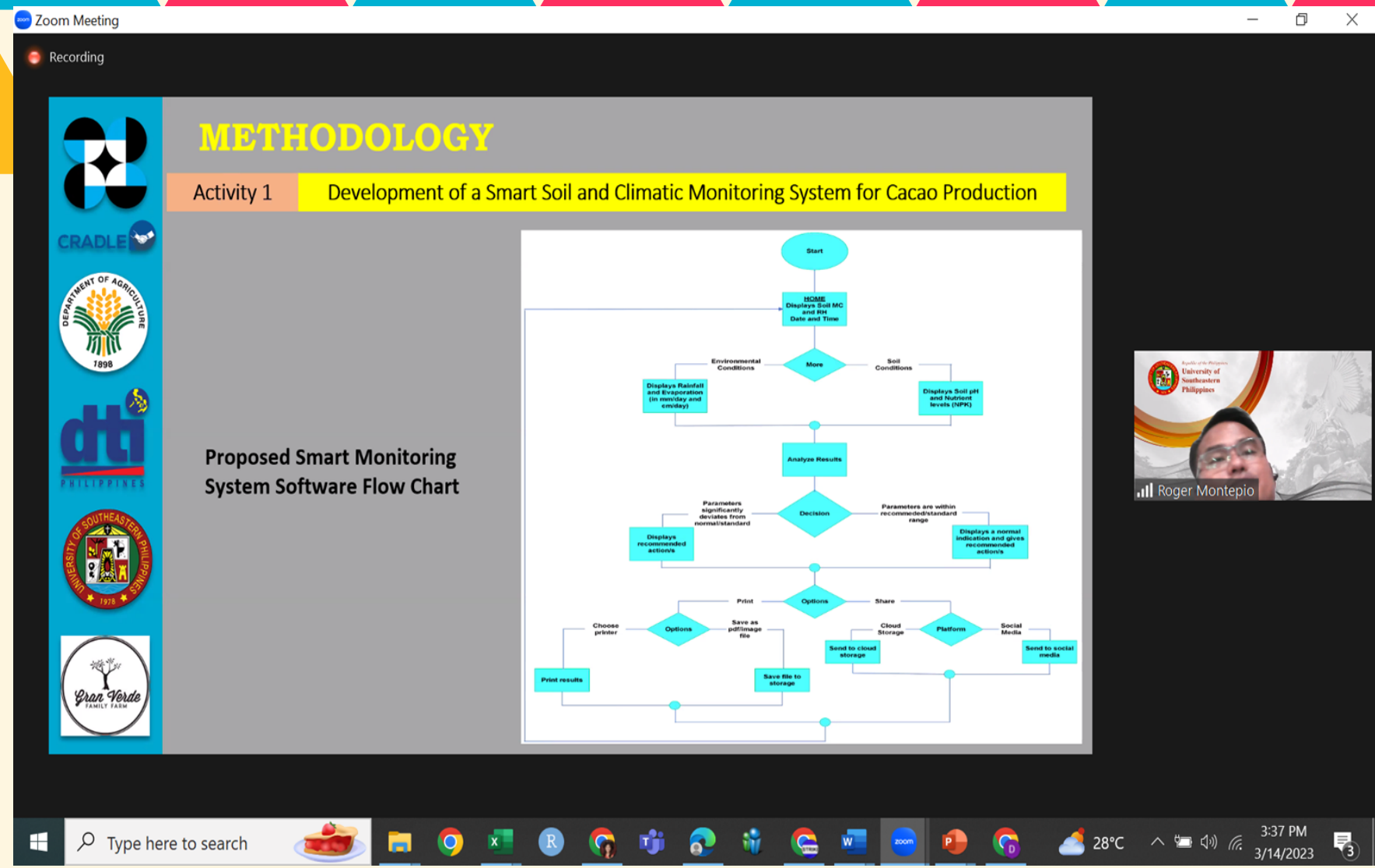
Crafting of proposed NICER on Automation and Digitalization in Agricultural Research and Development Using Artificial Intelligence of Things (AIoT)

- ✎ Held on February 21, 2023 via Zoom
- ✎ Attended by researcher/ experts from USeP – CEng'g & CARS
- ✎ Spearheaded by CD Gilbert Importante



- Held on March 9, 2023 via Zoom
- Presented proposals to the Council
- Attended by CD Gilbert Importante and Dr. R Montepio as proponents

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- Presented proposals to the Council
- Attended by CD Gilbert Importante and Dr. R Montepio as proponents



PAGRO Davao de Oro visit

- The meeting was held on March 13, 2023 at OSIS Conference
- Attended by SMAARRDEC Secretariat and two (2) focal persons from PAGRO Davao de Oro
- Discussed DDO's application for membership to the consortium



DDOSC In-House Review

- Held on March 21-22, 2023 via Zoom
- Attended by CD Gilbert A. Importante



Knowledge Management and Technology Generation



Ongoing Projects

Program/ Project Title	Agency	Funding Source/ Budget
Coastal Resources of Davao del Norte as Basis for GIS-Based Assessment and Monitoring (Phase I) Study 1: Species Diversity, Abundance, and Geographic Distribution of Mangroves Species Panabo Mangrove Park, Davao del Norte	Davao del Norte State College	DNSC/ 124685.8
Coastal Resources of Davao del Norte as Basis for GIS-Based Assessment and Monitoring (Phase I) Study 2: Taxonomy and Diversity of Brachyuran Fauna of Panabo Mangrove Park, with Notes on Distribution and Conservation	Davao del Norte State College	DNSC/ 75000
Coastal Resources of Davao del Norte as Basis for GIS-Based Assessment and Monitoring (Phase I) Study 3: Distributional Data and Fish Landing Areas in Panabo City, Davao del Norte	Davao del Norte State College	DNSC/ 75000
Nutrient Characterization of Modified Rice-Mongo Extruded Snack	Davao del Norte State College	DNSC/ 30000
Native Flora of Sitio Salawao, Sto. Niño, Talaingod: Phase 1	Davao del Norte State College	DNSC/ 12850

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
GIS for Davao del Norte IP-populated Hinterlands (Ancestral Domain) Project 1: Evaluating Potential Eco-Tourism Sites of the Ancestral Domains in the Province of Davao del Norte: A Geo-Spatial Mapping	Davao del Norte State College	DNSC/ 45,000.00
GIS for Davao del Norte IP-populated Hinterlands (Ancestral Domain) Project 2: Geospatial Mapping of Ancestral Domain Agricultural Resources in the Municipality of Talaingod	Davao del Norte State College	DNSC/ 35,000.00
GIS for Davao del Norte IP-populated Hinterlands (Ancestral Domain) Project 3: Risk Mapping of Malnutrition Distribution using Geographic Information System in the Municipality of Talaingod, Davao Del Norte	Davao del Norte State College	DNSC/ 20,000.00
Development of Online Repository of Coastal Resources	Davao del Norte State College	DNSC/ 40,000.00
Indigenous Knowledge and Practices during El Niño & La Niña: Lessons from Ata Manobo in Talaingod, Davao del Norte	Davao del Norte State College	DNSC/ 68,440.00

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Assessment of Various Rubber-Based Cropping Systems For Enhanced Production of Smallholder Rubber Farmers in Different Climatic Types of the Philippines	Philippine Rubber Research Institute	DOST-PCAARRD
Becoming Aware, Knowing the Archaic Source	Davao del Sur State College	DSSC/ 50,000
Adopt a Learner	Davao del Sur State College	DSSC/ 50,000
Helping Barangays Adopt the Community-based Monitoring System	Davao del Sur State College	DSSC/ 100,000
Assessment of fishery resources in selected MPAs in Santa Cruz Davao del Sur	Davao del Sur State College	DSSC/ 100,000

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Bio-efficacy of Liquid Trichoderma (LT) against Fusarium Wilt Disease of Banana under Field Condition	Davao del Sur State College	100,000
Establishment of Baseline Data for Management Planning of Plastic Waste Pollution in Digos City, Davao del Sur.	Davao del Sur State College	52,000
S and T Based Vegetable Production: Enhanced Food Security And Improved Livelihood through Sustainable Vegetable Production in Davao del Sur	Davao del Sur State College	DA/ 4,000,000
Project 6D. Enhancing Technology Transfer through IP-TBM in Davao del Sur State College (DSSC)	Davao del Sur State College	SMAARRDEC/ 1,686,966
Reproductive Biology, Dietary Analysis, and Life-History of Philippine Tuna species towards Sustainable Fishing Industry in Mindanao	Davao del Sur State College	MSU-GSC/57,000
Coffee as a way to Create Livelihood, Fight Poverty and climate Change	Davao del Sur State College	2,000,000/ BATAFAMA
Upscaling Bamboo Rural Enterprise and Development Project in Davao del Sur	Davao del Sur State College	20,000,000.00/ DA
Enhancing the Delivery of Agricultural Information Services and Promotion of Farm Clustering and Consolidation Through the Establishment of Community Radio Station	Davao del Sur State College	3,600,000.00/ DA

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Province-led Agriculture and Fisheries Extension Systems (PAFES)	Davao del Sur State College	DA / 1,000,000
Promoting Food Resiliency in Communities in Partnership with State Universities and Colleges: DARRDEN Collaborative Project	Davao del Sur State College	DSSC
Economic Comparative Analysis of Different production Techniques for Seaweeds	Davao del Sur State College	DSSC/ 100,000
Mentoring the Parents: Amplifying Parental Involvement towards Learning (APIL)	Davao del Sur State College	DSSC/ 50,000.00
Phyrtochemical and Antioxidant Activities of Coffee Leaf extracts From Digos City	Davao del Sur State College	DSSC/ 100,000
Diversity of neglected and Under utilized crop species of Davo del Sur	Davao del Sur State College	DSSC/ 100,000.00
Flexible Learning Stressors and Coping Strategies of Students in the Higher Educational Institutions (HEIs) of davo del Sur	Davao del Sur State College	DSSC/ 50,000
Community Empowerment Program	Davao del Sur State College	DSSC/ 100,000
Development and Testting of Seaweed-Based Bio-Stimulant Breads	Davao del Sur State College	DSSC/ 100,000
Coffee Table Book of Birds in Mount Apo	Davao del Sur State College	DSSC/ 35,000

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Collection, Conservation, Characterization, Evaluation and Utilization of Bananas and Plantains	Bureau of Plant Industry	Bureau of Plant Industry/ 404000
Collection, Conservation, Characterization and Utilization of Fruit Germplasm	Bureau of Plant Industry	Bureau of Plant Industry/ 404,000
Collection, Conservation, Characterization and Utilization of Cacao and Coffee	Bureau of Plant Industry	Bureau of Plant Industry/ 370,000
Collection, Conservation, Characterization and Utilization of Different Indigenous Vegetabkes, Herbs and Spices	Bureau of Plant Industry	Bureau of Plant Industry/ 350,000
Collection, Conservation, and Utilization of NSIC-Registered Varieties of Cassava	Bureau of Plant Industry	Bureau of Plant Industry/ 350,000
Utilization of Leaves of Different types of Banana into Packaging Materials	Bureau of Plant Industry	Bureau of Plant Industry/ 260,000
Surveillance and Molecular Detection of Viral Pathogens Associated Thrips Vector on Pummelo and Mangosteen in Mindanao	Bureau of Plant Industry	DA-BAR/ 3,595,740
Bio-enriched Spent Mushroom Substrate (SMS) of Pleurotus as Potential Control against Fusarium Wilt on Cavendish Banana (Fusarium oxysporum f. sp. cubense) TR4	Bureau of Plant Industry	Bureau of Plant Industry/ 1,119,088
Evaluation of different commercial organic foliar fertilizers on the growth performance of pummelo	Bureau of Plant Industry	Bureau of Plant Industry/ 260,000
Mindanao Cattle Research and Development Project	University of the Philippines Mindanao	DA-RFO XI / 5,326,000

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Hort/2015/042 Development of Area-Wide Management Approaches for Fruit Flies in Mango for Indonesia, Philippines, Australia and the Asia-Pacific	University of the Philippines Mindanao	ACIAR/ 2,056,976.38
Developing the Capability of Micro- and Small-Scale Processors in the Manufacture of Quality Food Products from Philippine Cocoa Beans: Study 3: Determination of Sensory Properties of Davao-Produced Dried Cocoa Beans and Tablea	University of the Philippines Mindanao	DOST-PCIERD/
Annotated Compendium of Gender and Development Research in Agriculture, Aquatic, and Natural Resources (AANR): Towards developing the AANR Gender and Development Research and Development Agenda and Framework	University of the Philippines Mindanao	DOST-PCAARRD/ 5,000,000
Assessing the desirability, feasibility and viability of expanding brackish water tilapia production towards developing an effective business model	University of the Philippines Mindanao	DOST-PCAARRD/ 5,000,000
Activity Budget and Diet Composition of Philippine Long-Tailed Macaques (<i>Macaca fascicularis philippensis</i>) in Human-Modified Landscapes of Hindang, Leyte, and Makilala, North Cotabato, Philippines	University of the Philippines Mindanao	DOST-NRCP/ 3,254,299.96

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Project 1. Population genomics and species diversity of reef fishes between Sulu and Celebes Seas biogeographic regions	University of the Philippines Mindanao	ACIAR/ 15,785,093
Project 2. Information System for Marine Fishery Morphology and DNA Sequence in Mindanao	University of the Philippines Mindanao	DOST-PCIERD/ 29,546,671
Harmonized Aerial Watch and Knowledge-based Survey (HAWKS)	University of the Philippines Mindanao	DOST-PCAARRD/ 5,882,088
Cost-effective Technology for Monitoring and Quantifying Benthic Area Covered by Marine Litter in Shallow Coastal Areas	University of the Philippines Mindanao	DOST-PCAARRD/ 5,882,088
Integrated Wastewater-Based Epidemiology and Data Analytics for Community-Level Pathogen Surveillance and Genetic Tracking: Proof-of-Concept	University of the Philippines Mindanao	DOST-NRCP/ 11,726,712
Vulnerability Assessment Tool: A Decision Support System for Pre-Emptive Preparedness on Emerging Infections Among Animal Reservoir in Urban Green Spaces	University of the Philippines Mindanao	DOST-PCHRD/ 23,254,933.24
Predictive Modeling and Viral Phylodynamic Analysis on the Spatial and Temporal Patterns of Disease Outbreaks with considerations for Control and Logistics (PPASTOL) applied in Mindanao region	University of the Philippines Mindanao	DOST;DOST-PCHRD/ 22,023,350.78

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Risk Management and Enhanced Survivability Analysis Integrated through Longitudinal Infectious Disease Data and Statistical Epidemiological Model using Clinical Risk Factors (RESILIMC)	University of the Philippines Mindanao	DOST;DOST-PCHRD/8,475,824
Automated Labeling Machine – Large Scale Initiative (ALaM-LSI)	University of the Philippines Mindanao	DOST-PCIEERD/48,310,532.16
Phytological Control of Cogon (Imperata cylindrica (L.) Beauv) Using Clones Applied with Biofertilizer and Combination of NPK and Vermicast in Degraded Ancestral Domain Area,Talaingod, Davao del Norte	DENR-ERDB-ARDEC	ERDB/ 4, 304,800
Valuation of Ecosystem Services in a Community-Based Forest Management Agroforestry (CBFM A/F) Area in Baranga Bantol, Marilog Dist., Davao City	DENR-ERDB-ARDEC	MGB/2,650,764
Phytostabilization of Mercury Contaminated Areas Using Forest Tree Species with Heavy Metal Accumulation Potential Within the Pit Lake of Sta. Lourdes, Puerto Princesa, Palawan	DENR-ERDB-ARDEC	MGB/ 3,915,893
Phytoremediation for Mercury Contaminated Water in Abandoned Open Pit in Sta. Lourdes, Puerto Princesa City	DENR-ERDB-ARDEC	MGB/ 2,455,683

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Design and Improvement of Adlai (Coix lacryma jobi L) Milling Machine	SPAMAST	SPAMAST GAA/ 50000
Social upport and Quality of Worklife among COVID19 Frontline Workers: The Mediating Effect of Health and SafetyS	SPAMAST	SPAMAST GAA/ 30000/
Resilient Social Work Practice: From the Experiences of Filipino Social Workers	SPAMAST	SPAMAST GAA/30,000.00
A Version of Creamy Buko Pie with Peanut and Raisins: Shelf Life and Consumers' Acceptability	SPAMAST	SPAMAST GAA/ 38,000.00
Supply-Chain of ADLAI in Davao Region	SPAMAST	SPAMAST GAA/35,000.00
Assessment of Species of Mud Crab (Scylla spp.) Stocks in Mangrove Areas in Davao Occidental	SPAMAST	SPAMAST GAA/ 20,000.00
Primary Productivity in Nearby Coastal Water of Coal Powerplant	SPAMAST	SPAMAST GAA/35,595.00
Effects of Fish Cages on Water Quality in Sta. Maria, Davao Occidental	SPAMAST	SPAMAST GAA/50,000.00
Challenges and Lessons Learned in the Implementation of Government Policies during COVID 19 Pandemic	SPAMAST	SPAMAST GAA/ 30,000.00

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
The K-Domination Defect in the Join and Corona of Graphs	SPAMAST	SPAMAST GAA/30,000.00
Relativist (Soven Kierkegaard) Perceptual Theory on COVID-19 Pandemic	SPAMAST	SPAMAST GAA/ 38,000.00
Promoting Food Resiliency through Palaisdaan sa Pamantasan Project	SPAMAST	SPAMAST GAA/ 35,000.00
Promoting Food Resiliency Through “ Itikan sa Pamantasan Project (IPP) ”	SPAMAST	SPAMAST GAA/ 20,000.00
Barangay Integrated Development Approach (BIDA) Center for Organic Production Technology (OPT)	SPAMAST	SPAMAST GAA/20,000.00
Livelihood Innovation and Fair Entrepreneurship (LIFE) Extension Program	SPAMAST	SPAMAST GAA/41,600.00
Dyslexia Center Support to Struggling Reader	SPAMAST	SPAMAST GAA/30,000.00
Skills Training for the Deprived, Depressed and Underserved Persons	SPAMAST	SPAMAST GAA/20,000.00
Community Innovations and Development Solutions (CIDS)	SPAMAST	SPAMAST GAA/38,000.00

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Tilapia Value-Added Products: Entrepreneurship Opportunity for Inland Fish farmers	SPAMAST	SPAMAST GAA/25,000.00
My Garbage and I Extension Project	SPAMAST GAA	SPAMAST GAA/ 38,250.00
Utilization of Geographical Information System (GIS) Map for Adlai (Coix lacryma-jobi L.) Production in Selected Barangays in Malita, Davao Occidental	SPAMAST	SPAMAST GAA/10,465.00
Customary Conflict Resolution Syllabus Dissemination among HEIs in Davao Occidental & Del Sur	SPAMAST	SPAMAST GAA/14,874.38
Beach Forest Profiling in Malita Davao Occidental	SPAMAST	SPAMAST GAA/38,000.00
Cytotoxicity assessment of the selected medicinal plants utilized by the Indigenous People (IPs) of Don Marcelino, Davao Occidental	SPAMAST	SPAMAST GAA/38,000.00
Ethno-botanical Survey of Indigenous Herbs and Spices in Municipality Area of Jose Abad Santos, Davao Occidental	SPAMAST	-
GIS Mapping and Characterization of Different Varieties of Adlai in Selected Barangays of Davao Occidental	SPAMAST	SPAMAST GAA/ 26,000.00

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Basura ko, Sagot ko (International Cleanup Version)	SPAMAST	SPAMAST GAA/27,000.00
Enhancing Productivity of Inland Aquafarmers of Malita, Davao Occidental through Capability Development Activities		SPAMAST GAA/27,000.00
Community-Based Production of Dragon Fruit Seedlings (Hylocereus undatus) in Buhangin, Malita, Davao del Sur	SPAMAST	SPAMAST GAA/38,000.00
S&T-based Organically Grown Cucumber: Production, Marketing and Information Dissemination	SPAMAST	SPAMAST GAA/ 20,000.00
iSTACK - Integrated and Systemic Technology for Agricultural e-Commercial Kart	SPAMAST	SPAMAST GAA/86,000.00
SPAMAST E- Learning Series for BSSW Agency Field Supervisors in partnership with PASWI Davao Occidental Chapter	SPAMAST	SPAMAST GAA/ 30,000.00
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Southern Mindanao: UGMARA: Uplifting the Grassroot-based Mindanaoans in AANR initiatives through Regional Approach	SPAMAST	DOST-PCAARRD/1,829,348.00
Developing IP-TBM in SPAMAST through RAISE		
Sustainable Agri-Fishery Enterprise (SAFE) on Fish Processing and Incubation Hub	SPAMAST	DA/40,000,000.00

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
Pre-Harvest & Post-Harvest Mangifera Indica Quality of Mango as Influenced by Cultural Practices and Weather Condition	SPAMAST	SPAMAST GAA/ 40,000
Household Finance Management (HFM): An Assessment of Financial Knowledge and Behavior of Women and Basis for Interventions in Barangay Buhangin, Malita, Davao Occidental	SPAMAST	SPAMAST GAA/ 20,000
Physico-Chemical Properties of Soils and Soil Fertility Status under Mango (Mangifera indica) Production Area in Malita, Davao Occidental	SPAMAST	SPAMAST GAA/ 35,595
Blockchain-Based Novel System Application for Transparent Traceability of Halal-and-Tayeb Cacao Products	University of Southeastern Philippines	DOST/6,586,856.00
Resiliency of the Agriculture, Aquatic and Natural Resources (AANR) Sector in Times of Crisis: A Compendium of Regional Case Studies and Best Practices of Consortium Members' Initiatives in the Philippines	University of Southeastern Philippines	DOST-PCAARRD/ 2,000,000.00
Inter-consortia Convergence in Socio-Economic R&D Institutionalization of the Socio Economic Research and Data Analytics Centers in Consortia Operations	University of Southeastern Philippines	DOST-PCAARRD/1,601,619.00
An Integrated Management Response to the Spread of Fusarium Wilt of Banana in Southeast Asia (ACIAR Phase 2)	University of Southeastern Philippines	ACIAR/ AuD276,311

Ongoing Projects

Program/ Project Title	Agency	Funding Source
Application and Improvement of Embryo Transfer (ET) and Artificial Insemination Technologies as Tools Toward Achieving the Desired Number of Genetically Superior Breeder Dairy Cattle	USEP	DOST-PCAARRD/ 7,013,160.20
Design, Development and Optimization of an Automated Combined Mechanical Cacao Democilager-Fermenter-Dryer	University of Southeastern Philippines	DOST-PCAARRD/ 4,945,925.00
Enhancement of Food Processing Laboratory of USEP Tagum-Mabini Campus	University of Southeastern Philippines	DA-funded/ 5,000,000.00
Upgrading of Indoor and Controlled Button Mushroom Production Facility at University of Southeastern Philippines	University of Southeastern Philippines	DA-funded/ 5,000,000.00
Upgrading of Banana Tissue Culture Laboratory at University of Southeastern Philippines	University of Southeastern Philippines	DA-funded/ 5,000,000.00
Development and pilot testing of tree climbing-harvesting device and mobile mechanical dehusker for coconut	University of Southeastern Philippines	DOST-PCAARRD/ 4,999,995.00
Pest and Disease Incidence and Severity in Falcata Plantations in Mindanao	University of Southeastern Philippines	DOST-PCAARRD/ 5,779,862.53
Implementation of National Cooperative Test for Special Purpose Rice	University of Southeastern Philippines	246,400.00
ChicIoT: An IOT-Based Smart Poultry Building Environment and Growth and Health Status Monitoring and Modelling	University of Southeastern Philippines	DOST/ 4,768,038.00
Philippine Mining at the National to Catchment Scale: from Legacy Impacts to Sustainable Futures (PAMANA)	University of Southeastern Philippines	
Near-Real Time Monitoring of Banana Nutritional Status and Yield Forecasting Using Airborne Multispectral Imaging	University of Southeastern Philippines (USEP-CARS)	DOST-PCAARRD/ 5,000,000
Remote Sensing for Sustainable Minerals Development: A Case Study of Tampakan Deposit	University of Southeastern Philippines (USEP-CARS)	Sagitarrius Mines, Inc/ 280,000

Ongoing Projects

Program/ Project Title/Budhe	Agency	Funding Source/Budget
Impact Assessment of the PCIEERD Infrastructure Development Program	University of Southeastern Philippines (USEP-CARS)	DOST-PCIEERRD/ 1,422,851.65
Impact Assessment of the Phil LiDAR Program	University of Southeastern Philippines	DOST-PCIEERRD/ 2,218,354.17
Bacteriocin from Fermented Durian Rinds to Prevent Food Safety Issues	University of Southeastern Philippines	DOST-PCHRD/ 1,119,999
Development of the Philippine Groundwater Health Index (PGHI) for Monitoring Groundwater in Agricultural Areas	University of Southeastern Philippines	DOST-PCAARRD
Improvement of Soybean in Davao Oriental thru enhanced value chains, sustainable seed sector, and better varieties under different cropping systems	Davao Oriental State University	DOST-PCAARRD
Biodiversity in Selected Mountain Ecosystems of Mindanao for Conservation and sustainable Development	Davao Oriental State University	DOST-PCAARRD
Corn-Based Farming System (Corn+Peanut/ Corn+Mungbean) in Sitio Quarry, Barangay Malabog Paquibato District, Davao City	Department of Agriculture – RFO XI	
Maintenance and Operation of the DA RFO XI Itik Pinas Nucleus and Multiplier Farm and Itik Pinas Kayumanggi Duck Egg Production Project	Department of Agriculture – RFO XI	
Outscaling of Rice-based Farming System (Black Rice + Itik Pinas + Vehetable - Pinakbet) in Braulio E. Dujali, Davao Del Norte	Department of Agriculture – RFO XI	
Outscaling of Arabica Coffee Based Farming System (Coffee & White Potato + Upland Vegetables) in Barangay Alegre, Bansalan, Davao del Sur	Department of Agriculture – RFO XI	

Ongoing Projects

Program/ Project Title	Agency	Funding Source/Budget
ADAPTATION MITIGATION INITIATIVE in AGRICULTURE (AMIA-CRA) “Upscaling of Community Cacao/Coffee based Integrated Farming and Rehabilitation in different localities in Davao Oriental and Davao del Sur	Department of Agriculture – RFO XI	
Nutrient and Water Management for a Climate Change Resilient Coconut Agroecosystem in Luzon, Visayas, Mindanao	PCA-DRC	PCA/ 9,113,009
Development of Modalities on Climate-Resilient Coconut-based Farming Systems	PCA-DRC	PCA/ 2,700,000
Development of Investment Portfolio for Commercialization of Science-Defined Technologies on Coconut-Based Farming Systems	PCA-DRC	PCA/ 1, 700,000
Development of pest and disease monitoring, forecasting and management strategies using GIS	PCA-DRC	PCA/ 5,100.000
Physico-Chemical Properties of Soils and Soil Fertility Status under Mango (Mangifera indica) Production Area in Malita, Davao Occidental	SPAMAST	
Regional Agri-Aqua Innovation System Enhancement (RAISE) Program in Southern Mindanao : UGMARA Uplifting Grassroot-based Minadanaoans in AANR Initiatives through Regional Approach	DNSC DORSU SPAMAST UPMin USeP BPI PCA DDOSC DSSC KCAST	DOST-PCAARRD/ Year 1 & 2 = 30,229,888

Newly Approved Projects

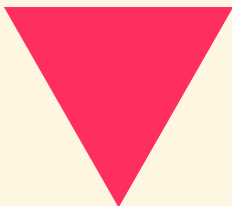
Program/ Project Title	Proponent/ Agency	Budget	Duration	Funding Source	Status/Remarks
Near Real-time Tracking Using GIS and Thermal Sensing Technology for Foc TR4 Detection and Prediction Dispersal In Banana	USEP	PhP4,999,968.00	24 months	DOST-PCAARRD	<i>Approved in July 2022; Funds downloaded in Feb 2023; Implementation started on March 1, 2023</i>
Development of Traceability System for Cacao in the Philippines	USEP	PhP 4,998,704.00	24 months	DOST-PCAARRD	<i>Approved in 2022 Funds downloaded in Feb 2023; Implementation started on March 16, 2023</i>
Impact Assessment of National R&D Initiatives for Seaweeds with Focus on the DOST-funded Seaweeds R&D Programs	USEP	PhP 4,999,792.75	18 months	DOST-PCAARRD	MOA on process

Proposals Submitted for Funding

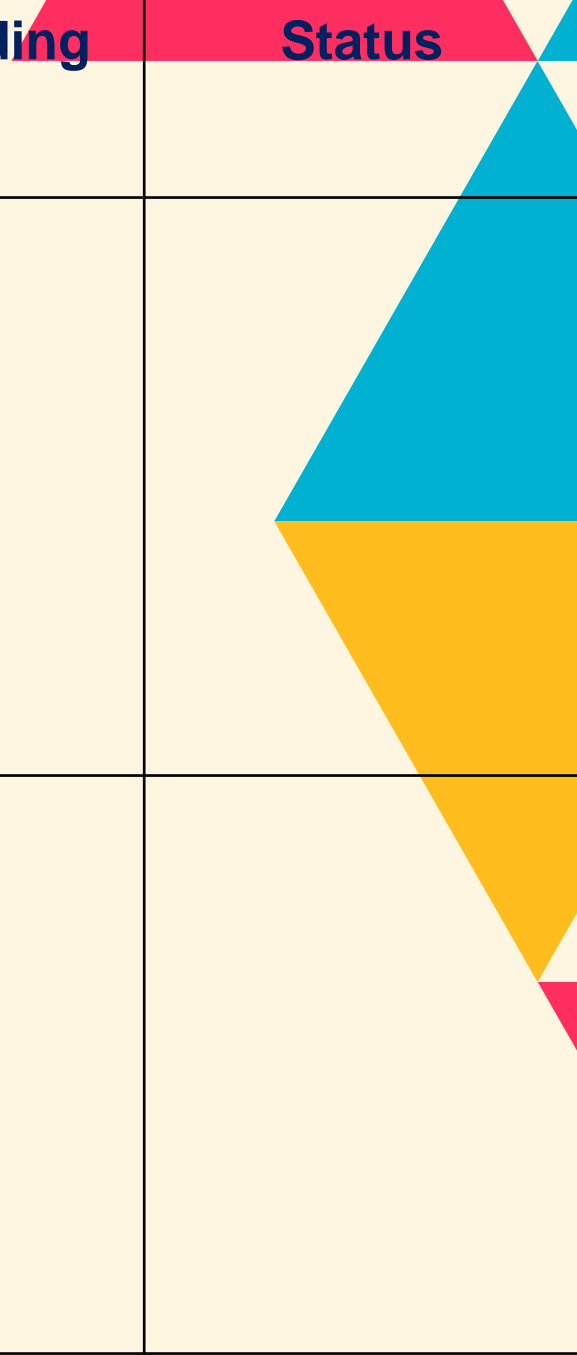
Program/ Project Title	Proponent/ Agency	Budget	Duration	Target Funding Source	Status
Development of Smart Post-Harvest Systems Facility for Coffee	Dr. Roger C. Montepio/ Engr. Alona J. CheTangye USEP	PhP 4,457,130.00	24 months	DOST -CRADLE	Uploaded in DPMIS
Development of Smart Post-Harvest Processing Facility for Cacao at Biao Agrarian Reform Beneficiaries Cooperative (BARBCO)	Dr. Roger C. Montepio/ Engr. Honeybee S. Limbaro USEP	PhP 4,922,130.00	24 months	DOST -CRADLE	Uploaded in DPMIS
Development of Pre and Post-Harvest Smart Monitoring System for Cacao Production	Dr. Roger C. Montepio/ Engr. Honeybee S. Limbaro USEP	PhP 4,780,256.00	24 months	DOST -CRADLE	Uploaded in DPMIS
Development and Evaluation of a Smart Coconut Sap Harvesting Device and Storage Equipment	Dr. Roger C. Montepio/ Engr. Ryan M. Abenoja USEP	PhP 4,997,130.00	24 months	DOST-PCAARRD	Uploaded in DPMIS
Microbial degradation of plastics for Soil composts/enhancers and fertilizers for Vegetable crops	Dr. Almi Fernandez – JMC Mr. Fernan Ramos- USEP	PhP 3,144,000.00	24 months	DOST –CRADLE	Uploaded in DPMIS
Automation and Digitalization in Agricultural Research and Development using Artificial Intelligence of Things (AIoT)	Dr. Roger M. Montepio/ Dr. Gilbert A. Importante USEP	PhP121,175,725.00	36 months	DOST-NICER	Uploaded in DPMIS

Proposals Submitted for Funding

Program/ Project Title	Proponent/ Agency	Budget	Duration	Target Funding Source	Status
Mitigating FocTR4: A regenerative soil management approach and market design	Dr. Gilbert A. Importante USEP	PhP 24,999,644.00	24 months	DOST-iCRADLE	Uploaded in DPMIS
Sustainable Innovations in Production and Processing of Coffee Underutilized by=Products (SIP-A-CUP) Program Project 1: Socio-Economic Characteristics on Local Coffee Farmers Cultivation, Production and Coffee Processi ng of Green Beans in Davao del Sur	DSSC				
Sustainable Innovations in Production and Processing of Coffee Underutilized by=Products (SIP-A-CUP) Program Project 2: Cataloging Arabica Coffee Cultivars in Davao Region and Optimization of Innovative Strategies to Enhance Production	DSSC				



Proposals Submitted for Funding



Program/ Project Title	Proponent/ Agency	Budget	Duration	Target Funding Source	Status
Sustainable Innovations in Production and Processing of Coffee Underutilized by=Products (SIP-A-CUP) Program Project Title 3: Sip the Black Gold of Waste: Product Development of Cascara Tea and Coffee wine from coffee cherry (Husk/pulp) Waste	DSSC				
Sustainable Innovations in Production and Processing of Coffee Underutilized by=Products (SIP-A-CUP) Program Project Title 4: Microbial and Nutritional Analysis of Coffee Pulp and by-Products	DSSC				

Proposals Submitted for Funding

Program/ Project Title	Proponent/ Agency	Budget	Duration	Target Funding Source	Status
Scaling-up Agroforestry for Food security and Environmental Restoration for CBFM Areas (SAFER - CBFMA) in Mindanao	Alvin Angelo A. Salting, Lyrae A. Casidsid, et al./DENR ERDB ARDEC	Not yet determined	5 years	DENR Ecosystems Research and Development Bureau (ERDB); and DENR Forest Management Bureau (FMB)	For submission of capsule proposal to ERDB Technical Review Committee (ETRC)
Leveling-up Enterprise development of Agroforestry for Food security for CBFM Areas (LEAF for CBFMA)	Araceli B. Dela Cruz et al./DENR ERDB ARDEC	Not yet determined	5 years	DENR Ecosystems Research and Development Bureau (ERDB); and DENR-FMB	For submission of capsule proposal to ETRC
Grassland ecosystem Resilience through the Advocacy of Science-based Solutions (GRASS)	Lyrae A. Casidsid, Alvin Angelo A. Salting et al./DENR ERDB ARDEC	Not yet determined	5 years	DENR Ecosystems Research and Development Bureau (ERDB); and DENR-FMB	For submission of capsule proposal to ETRC
Developing a Model for Sustainable Cacao (<i>Theobroma cacao</i> L.) Production of DENR-NGP Farmers in San Isidro, Davao del Norte Through Remote Sensing: A Case Study	James Jade Lasquites/Study Leader/USEP and Alvin Angelo A. Salting, MSc	1,375.4	1 year	ASEAN	Submitted fullblown proposal to ETRC

Proposals Submitted for Funding

Program/ Project Title	Proponent/ Agency	Budget	Duration	Target Funding Source	Status
Raster Imagery Analysis for an Improved Fertilization Program to Increase Cacao (<i>Theobroma cacao</i> L.) Productivity of DENR-NGP Farmers in San Isidro, Davao del Norte	Alvin Angelo A. Salting et al./DENR ERDB ARDEC	1,495.5	1 year	DA	Submitted fullblown proposal to ETRC
Agroforestry Integrated Development (AID) for Climate Resilient and Sustainable Upland Ecosystem	Lyrae A. Casidsid et al./DENR ERDB ARDEC	4,758.84	3 years	ERDB and Davao Region Upland Agricultural Research Station (DaRUARS)	Submitted capsule proposal to ETRC
Discovery and Development of Biocontrol Strategies for the Management of Economically Important Emerging Pests and Diseases in Coconut and Banana: Towards Sustainable and Regenerative Agriculture in Mindanao	Dr. Phoebe Nemenzo-Callica/DORSU			PCAARRD	

R&D Results Utilization



RAISE UGMARA ANNUAL REVIEW

- Held last February 6-7, 2023 at CIC-AVR, USeP, Obrero, Davao City
- Conducted by DOST-PCAARRD
- Hosted by SMAARRDEC and USeP
- Attended by project leaders and staff from seven (7) regions nationwide.



Distribution of fingerlings

- As part of the implementation of DOST-funded projects AGAK and Pisolar, Brgy. Dagohoy of Talaingod Davao del Norte will be given 1000 fingerlings for their communal fishpond.
- The consortium secretariat coordinated with BFAR XI Regional Office to realize their request.



Republic of the Philippines
Department of Agriculture
BUREAU OF FISHERIES AND AQUATIC RESOURCES
PROVINCIAL FISHERY OFFICE-DAVAO DEL NORTE
Energy Park, Apokon, Tagum City, Davao del Norte
Telephone Number: (084) 216-0848
Email Address: pfodelnorte@gmail.com

14 March 2023

GILBERT A. IMPORTANTE
Consortium Director
SMAARRDEC
Obrero, Davao City

Dear Director. Importante;


Greetings!

This is in reference to your letter request dated March 07, 2023 regarding the fingerlings assistance for the People's Organization (PO) of Barangay Dagohoy, Talaingod, Davao del Norte.

In view hereof, we would like to inform your end that our Technical personnel will conduct fishpond site validation on **March 23, 2023**. For clarifications and queries, you may coordinate and contact Mr. Marklin D. Delos Santos at mobile number 0946-163-8182.

We are looking forward to a more positive and productive partnership.

Very truly yours,


AYLWIN N. VENTURA
OIC, Provincial Fishery Officer
Davao del Norte

Distribution of banana planting materials & vermi worms

- As part of the implementation of DOST-funded project AGAK and sustained partnership with the Philippine Army, the Secretariat facilitated the provision of banana planting materials from BPI-DNCRDPSC and vermi worms from USeP-Mabini to the CAFGUs (rebel returnees) of the 27th IB
- These CAFGUs are exposed to farming for their additional livelihood activities



INNOFIESTA 2022

- Held during December 13-14, 2022 at USeP Grounds, Obrero, Davao City.
- Spearheaded by USeP KTTD and AgiLab. 31 group of students participated the event.



CAPABILITY BUILDING



Research Conference for AANR Students



- held last December 7, 2022 at USeP Social Hall, Obrero, Davao City
- 8 papers Eight (8) studies fell under the Agriculture and Natural Resources Category while Aquatic and Poster categories

AGRICULTURE	RANK
Cytotoxic and Antibacterial Activities of Almaciga (<i>Agathis philippinensis</i>) Aqueous Resin Extract, <u>Joshua D. Maslog</u> , DORSU	1st
Population Density and Survival of <i>Trichoderma harzianum</i> on Solid and Liquid Media: Effects on <i>Fusarium Oxysporum</i> F. sp. <i>cubense</i> TR4 Causing Banana Fusarium Wilt, <u>Ian Charles Cabrera</u> , USeP	2nd
Effects of Different Levels of Mango Seed Kernel Powder on Broiler's Production Performance and Carcass Traits, <u>John Ryan C. Bongo</u> , DORSU	3RD

AQUATIC	RANK
Utilizing Alternative Carbon Sources For Biofloc System for Growth and Survival of Pacific Whiteleg Shrimp (<i>Litopenaeus vannamei</i>), <u>Arien Jean M. Lopez</u> , <u>Edgar Allan P. Firman</u> , <u>John Paul R. Pacyao</u> , <u>Godofredo F. Lubat, Jr.</u> , <u>Marlyn B. Llameg</u> , SPAMAST	1st
Recruitment of <i>Dascyllus</i> spp. and Associated Reef Fishes in Poclopora Coral in MRP Samal Island, <u>Anselmo Anobong Jr</u> , DNSC	2nd
Development Of Sea Urchin-Flavored Tapioca Kropeck, <u>Julie Anne Ortega</u> , DSSC	3rd

POSTER	RANK
Utilization of A Sustainable Management Approach Against Spiralling Whitefly, <i>Aleurodicus dispersus</i> Russell, 1965 (Hemiptera: Aleyrodidae) Infesting Guava (<i>Psidium Guajava</i> L.) and Its Effects on the Natural Enemy Complex, <u>Karl Fritze S. Sampiano</u> , USeP	1st
Comparative Performance of Irradiated and Non-irradiated Carrageenan-Based Foliar Fertilizers on the Growth, Yield and Pest Incidence of Pechay, <u>Maria Lyca Trianga</u> , DORSU	2nd
Development of Seaweed (<i>caulera</i> sp.) Enriched Corn Coffee Powder, <u>Reychell Joy Y. Casamavor</u> , <u>Marlyn B. Llameg</u> , <u>John Paul R. Pacyao</u> , <u>Regie D. Patagoc</u> , <u>Kher Dave H. Doños</u> , SPAMAST	2nd

ICT TRAINING FOR AGAK

- Held last December 28, 2022 at OSIS Conference
- Eight (8) AGAK-Farmers who from Sitio Kibalatong and Mapula Paquibato Davao City and Sitios Igang, Camaca and Butay Talaingod Davao del Norte where trained to use the application



Seminar on Experiences in Banana R&D: Research for Development Model Between the Academe and Industry

- Held last March 16, 2023 at CIC-AVR, USeP, Obrero, Davao City and via Zoom
- Conducted by SMAARRDEC
- Speaker was Dr. Agustin Molina Jr.
- Attended by different representatives from government agencies, academe and private industries
- 62 F2F participants and 154 online participants graced the occasion
- Initial discussion particularly on how the industry could fully utilize the R&D outputs of the academe



POLICY ADVOCACY AND GOVERNANCE



Tanglaw and Pantas Nominations

- First leg held last December 20, 2022 at Sitio Kibalatong, Panalum, Paquibato, Davao City
- Second leg held last December 23, 2022 at Brgy. Mapula, Paquibato, Davao City



NSAARRD Nominations

- First leg held last December 20, 2022 at Sitio Kibalatong, Panalum, Paquibato, Davao City
- Second leg held last December 23, 2022 at Brgy. Mapula, Paquibato, Davao City



Submission of Annual Report

- First leg held last December 20, 2022 at Sitio Kibalatong, Panalum, Paquibato, Davao City
- Second leg held last December 23, 2022 at Brgy. Mapula, Paquibato, Davao City



SMAARRDEC Gift Giving (AGAK Project)

- First leg held last December 20, 2022 at Sitio Kibalatong, Panalum, Paquibato, Davao City
- Second leg held last December 23, 2022 at Brgy. Mapula, Paquibato, Davao City



SMAARRDEC Gift Giving (AGAK Project)

- 3rd and 4th leg at Sitios Igang, Camaca and Butay Brgy Palma Gil, Talaingod Davao del Norte on

Food packs, used clothing and vitamins were donated by the USeP-Adco Members, faculty, friends abroad and the USePMultipurpose Coop



Resolutions Approved during the 113th

RRDCC Meeting



Financial Status

As of MARCH 2023

SUMMARY					
Consortium Operations 2023					
Total Released (2023)	1,696,808.00				
	Budget	Disbursed	Payables	Unexpended	Utilization
Salary	293,784.00	60,832.81	12,552.65	220,398.54	24.98
Honorarium	393,600.00		98,400.00	295,200.00	25.00
Travel	99,000.00		23,538.00	75,462.00	23.78
Communication	100,800.00	13,497.00	-	87,303.00	13.39
Repairs and Maintenance	18,000.00	-		18,000.00	0.00
Supplies	40,000.00	-	-	40,000.00	0.00
Printing	30,000.00	1,394.00	-	28,606.00	4.65
Rent Expense	31,000.00	5,000.00	-	26,000.00	16.13
Representation	120,000.00	58,724.00	-	-	48.94
Other Professional Services	375,624.00	48,473.15	13,472.00	313,678.85	16.49
Subscription Expenses	10,000.00	4,799.00	-	5,201.00	47.99
Indirect Cost_ Utilities	60,000.00		-	60,000.00	0.00
Indirect Cost_ Supplies and Materials Exp.	40,000.00	-	-	40,000.00	0.00
Indirect Cost_ Communication Exp.	10,000.00	-	-	10,000.00	0.00
Equipment Outlay	75,000.00		-	75,000.00	0.00
Total	1,696,808.00	192,719.96	147,962.65	1,356,125.39	20.08

Update on CMI's Annual Contribution

As of MARCH 2023

Agencies	Year Contributed		
	2021	2022	2023
BFAR XI			
BPI-DNCRDPSC	✓	✓	
DA-RFO XI	✓	✓	✓
DDOSC	✓	✓	✓
DENR-ERDB-ARDEC	✓	✓	✓
DNSC	✓	✓	✓
DORSU			✓
DOST XI	✓	✓	✓
DSSC	✓	✓	✓
KCAST			✓
PCA-DRC	✓	✓	✓
PhilFIDA XI			
PLGU-DavNor	✓	✓	
PLGU-DavSur			
PRRI			
SPAMAST		✓	✓
UPMin			
USeP	✓	✓	✓



DAGHANG SALAMAT!
