# NARRATIVE REPORT FORMAT FOR PCAARRD AND DOST-FUNDED TECHNOLOGY TRANSFER PROJECTS

#### PART I. SUMMARY OF INFORMATION

**Program Title:** Regional Agri-Aqua Innovation System Enhancement (RAISE)

Program: UGMARA: Uplifting the Grassroot-based

Mindanaoans in AANR Initiative through Regional Approach

**Project Title:** Project 4. Establishment of a Regional Knowledge Management

Hub of SMAARRDEC in Davao Region

Implementing Agencies: SMAARRDEC

1. University of Southeastern Philippines (USEP)

- 2. Davao de Oro State College (DdOSC)
- 3. Davao del Norte State College (DNSC)
- Davao del Sur State College (DSSC) 4
- 5. Davao Oriental State University (DOrSU)
- University of the Philippines Mindanao (UP Min) 6.
- 7. Bureau of Plant Industry - Davao National Crop Research, Production and Development Support Center (BPI-DNCRDPSC)
- 8. Kapalong College of Agriculture, Sciences and Technology (KCAST)
- 9. Philippine Coconut Authority – Davao Research Center (PCA-DRC)
- 10. Southern Philippines Agri-Business and Marine and Aquatic School of Technology (SPAMAST)

## **Budget:**

Total Approved Budget: Php 1,897,998.00

Total Release Budget:

Php 1,897,998.00

Total Expenditure:

Php 1,840,994.83 - **96.99**%

**Duration:** 

Project Start

01 January 2022

Project End

31 December 2023

Extension

01 January - 30 June 2024

Region/Areas Covered: Region XI

Rationale/Significance: (Based on the approved proposal)

The transfer and commercialization of the research findings in various fields have demonstrable benefits for the productivity of university researchers, research institutions, and local economic development. Information about the recent advancements in Research and Development (R&D) and Science and Technology-based technologies is the cornerstone of any long-range competitive

strategy. The Department of Science and Technology (DOST) mission is anchored on directing, leading, and coordinating the country's scientific and technological efforts toward maximum economic and social benefits for the people. Thus, DOST is mandated to facilitate the technology transfer and commercialization of R&D outputs, being one of the interventions.

The Regional R&D Consortia mechanism has been integral to DOST PCAARRD's R&D management system. It has become the Council's platform for joint R&D planning, monitoring, evaluation, and sharing of resources among member institutions to develop the agriculture, aquatic, and natural resources sector in the regions. The concept of the consortium is to mirror the function of the DOST-PCAARRD as a sectoral council in the region. The Southern Mindanao Agriculture, Aquatic, and Resources Research and Development Consortium (SMAARRDEC) is at the forefront of DOST PCAARRD in Region 11. It is significant to note that for more than a decade, USeP has been the base agency of Southern Mindanao Agriculture, Aquatic and Resources Research and Development Consortium (SMAARRDEC), a 23-member consortium of line agencies and research institutions in agriculture and agri-related research and development. The collaboration and networking among the consortia member institutions (CMIs) are sought to achieve a common goal - a dynamic system of research management attuned to regional needs for development and effective technology transfer from knowledge producers to user-farmers in the rural areas where small-scale household farming dominates. The consortium serves as a one-stop hub for technology owners and generators, investors, end-users, and other stakeholders within the agriculture, aguatic, and natural resources (AANR) innovation system.

The Knowledge Management (KM) Cluster of SMAARRDEC has a system that collects, stores, and analyses relevant AANR data of CMIs within the Davao Region. It aims to consolidate important regional data related to AANR research for project alignment, decision-making, resource management and monitoring, and other relevant information. Further, the KM system provides the profile of the faculty researcher in the region to increase the visibility and impact of the generated research. See website: http://smaarrdec.usep.edu.ph/.

Although DOST PCAARRD provides funding support to the Consortia's initiatives under the four banner programs of strategic R&D, R&D results utilization, institution development, and policy research and advocacy, the Council also institutes capability-building measures and other means of support to ensure that the consortia can perform as "PCAARRD in the regions." The consortium feels that efforts on IP-based innovation should also be equally supported in the consortium to maximize the socio-economic potential of IP-based technologies of the CMIs. In such a manner, the proposed enhancement of a KM hub of SMARRDEC will supplement the needs of other regional hubs like IPTBM, Agribusiness, and ATBI. It will serve as the regional repository of all IP-based technology briefs/knowledge resources for promotions and dissemination that might lead to commercialization. The faculty researcher is highlighted as well to increase the visibility and possible R&D collaboration with the industry.

# **Program Objectives:**

To mirror the functions and initiatives of the DOST-PCAARRD Innovation and Technology Center (DPITC) in the Southern Mindanao Region by assisting the regional consortium member institutions (CMIs)

# **Specific Objectives:**

- 1. Manage regional AANR technologies and intellectual properties;
- 2. Support regional partners in developing their respective technology transfer programs;
- 3. Provide capability building on technology transfer to R&D partners;
- 4. Provide a venue for convergence of regional AANR stakeholders from the academe, public, private sectors, NGOs, and international partners;
- 5. Facilitate public-private access to AANR technologies to improve the innovation ecosystem in the region; and
- 6. Strengthen existing and forge new Public-Private Partnerships for R&D Results Utilization (RDRU).

# **Project Objectives:**

To enhance the Knowledge Management services of selected CMIs.

# Specific Objectives:

- 1. To improve the Inventory of Knowledge Resources in the region by developing one Information System;
- 2. To populate and publish the e-Library system and Real-Time Monitoring System (RTMS);
- 3. To capacitate consortium member institutions on Knowledge Management and Technology Promotion; and
- 4. To promote matured technologies to potential users and partners.

#### **Expected Outputs**

Publications	<ul> <li>1 National Training Module</li> <li>1 Regional Training Module</li> <li>10 IECs</li> </ul>
Patents	11 Copyright of Training Module and IECs
Products	<ul> <li>1 Regional Inventory of Knowledge Resources</li> <li>1 Regional CommPlan</li> <li>1 E-lib established/enhanced</li> </ul>
People and Services	<ul> <li>Regional Commplan &amp; Inventory of Knowledge Resources Workshop</li> <li>1 Regional Technology Promotion Mentorship</li> <li>2 Regional Pitch Day</li> <li>Trained # CMI staff</li> <li>Assisted # CMI in KM management services</li> </ul>

	Participate to content build-up of RTMS
Policies	Regional KM institutionalized

# PART II. HIGHLIGHTS OF ACCOMPLISHMENTS

Expected Outputs	Accomplishments			
Publication				
National Training Module	100%			
Regional Training Report	100%			
10 IECs	120%			
Patents				
11 Copyright of Training Module and IECs	120%			
Products				
1 Regional Inventory of Knowledge Resources	100%			
1 Regional CommPlan	100%			
1 E-lib established/enhanced	100%			
People and Services				
Regional Commplan & Inventory of Knowledge Resources Workshop	100%			
1 Regional Technology Promotion Mentorship	100%			
2 Regional Pitch Day	100%			
Trained # CMI staff	100%			
Assisted # CMI in KM management services	100%			
Participate to content build-up of RTMS	100%			
Policies	•			
Regional KM institutionalized	10%			

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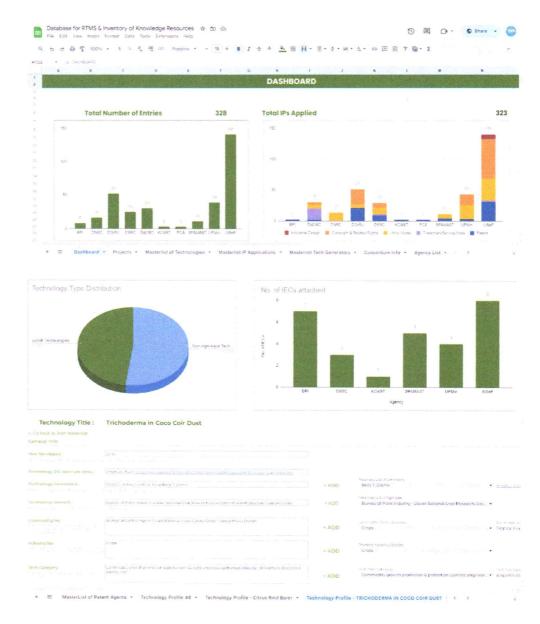
	COPYRIGHT APPLICATIONS FOR IECs			
	TCCR Number	Title		
1	2024-01951-A-TCCR	SMAARRDEC Tri-Fold Brochure for CocoClimber		
2	2024-01953-A-TCCR	SMAARRDEC Tri-Fold Brochure for Rosanna		
3	2024-01955-A-TCCR	SMAARRDEC Tri-Fold Brochure for Hatts		
4	2024-01957-A-TCCR	SMAARRDEC Tri-Fold Brochure for Musa de Vino		
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10	2024-02654-A-TCCR	Smaarrdec tri-Fold Brochure for Tilanggit		
11	2024-02656-A-TCCR	Smaarrdec Tri-Fold Brochure for Tuna Skin		
12	2024-02658-A-TCCR	Smaarrdec Tri-Fold Brochure for Okara Coco Nugget		

# SCAN THIS QR CODE TO VIEW CERTIFICATES



## Products / Services / Innovations developed

a. Regional RTMS & Inventory of Knowledge Resources Database In preparation for the RTMS website, the project created a database for the technologies existing within the region to streamline the uploading process. This database includes information on IP applications, commercialization status, and the TRL and IRL levels of each technology. It was also designed to serve as a unified inventory of knowledge resources, acting as a repository for all researchers and available IECs related to the technologies. This central resource allows the consortium to easily select technologies for their promotion activities.



b. The KTTD ITSO IP Monitoring Sheet was transformed from a basic single-tab format into a comprehensive, organized, and automated database. The new system incorporates custom functionality through Google Apps Script, streamlining processes and enhancing efficiency.

A dynamic dashboard was added to provide easy reporting at a glance, and a "Latest Updates" table was created to allow for real-time tracking of ongoing IP applications. Additionally, individual sheets were developed for each application, enabling seamless linking of documents and detailed tracking of actions taken at every stage of the process. A dedicated table for annuity payments was also included to ensure efficient tracking and management of IP annuity payments, ensuring continued protection of intellectual property. This overhaul significantly improved the monitoring and reporting capabilities of the system, providing a more structured and user-friendly experience.



				Filter by Transaction	Filter by Date (From-To)
Latest L	<b>Jpdates</b>			10 July 5 46 18	5/1/2022
IP Type	Application #	Title	Author	Latest Transaction	Date
Patent	12023050168	Modular Block For The	Re Allan E. Botuyan	Certificate of Registration Re	ece 8/22/2024
Patent	12019000298	A System and Method	fo Franch Maverick Lorilla, A	Anth Revival Order	8/19/2024
Patent	12023050798	A System for Controlling	ng Keno M. Mendoza, Orvil N	A. Bc Request for Early Publication	8/13/2024
Patent	12022050447	A System for Using Ene	erg Reyman M. Zamora, Film	anr Substantive Examination Re	po 8/12/2024
Patent	12022050294	Soil Sampling Probe	Kathleen C. Cedeño	Request for Substantive Exa	mi 8/5/2024
Patent	12022050686	Multifunctional Nursin	g B Sarrah Mae B. Villoria	Notice of Publication	8/5/2024
Patent	12019000310	An Enhanced Vermica	ist Ryan Abenaja, Roger Mo	nter Issued Letters Patent	7/31/2024
Patent	12024050277	Mathematical Learnin	g & Hannah Lacatan, Raque	Ain Early Search Report Reques	7/26/2024
Patent	12024050302	Modified Junction Box	wi Rave Evangelio, Philip De	spc Early Search Report Reques	7/26/2024
Patent	12023050898	A System For Transpa	ren Manzoor A. Hashmani, M	enc Formality Examination Repo	ort 7/1/2024
UM	22022050544	Method of Producing F	Pec Arggie Roy G. Busalia	Formality Examination Repo	ort F 3/26/2024
UM	22022050572	Process of Producing 5	Sar Ma. Joy G. Soriano	For Issuance of Certificate	3/26/2024
UM	22022050578	Method of Producing (	Glu Sharon L. Binoya	Formality Examination Repo	ort : 3/26/2024
UM	22022050584	Process of Preparing C	Che James L. Antonio	For Issuance of Certificate	3/26/2024
UM	22022050621	Process of Making Juk	ce Elisa E. Braganza	For Issuance of Certificate	3/26/2024
UM	22022050622	Process of Making Shr	imį Suzzette C. Quico	For Issuance of Certificate	3/26/2024
Trademark	42024507981	SePhi	University of Southeaste:	n P Filed	3/22/2024

# **Annuity Payments/Renewal Payments**

IP Type	IP No.	Title	Author	Filing Date	Publication Date	Registration Date	Expiration Date	Annuity Payment Due Date
MU	22017001046	Universal Filter Wrench	Virgilio Ombao Jr.	7/2/2017	3/6/2019	6/18/2019	7/2/2024	3/6/2024
UM	22016001111	Mechanical Pummelo Fra	Roger Montepio, Ja	4/11/2016	3/14/2018	8/20/2018	4/11/2023	3/14/2024
UM	22019050131	Process of Producing Dur	Karl P. Campos	3/11/2019	3/14/2019	4/22/2019	3/11/2026	3/14/2024
Patent	12018000305	A Mechanical Banana Bu	Roger C. Montepio	8/10/2018	4/13/2020	6/10/2022	8/10/2038	4/13/2024
Patent	12015000363	Pusher-Type Swaging To	Clowee Albrando,	10/19/2015	4/24/2016			4/24/2024
Patent	12017050082	A System for Regulating	Filmann T. Simpao	11/17/2017	4/29/2019	9/22/2021	11/17/2037	4/29/2024
UM	22017001047	Payment System for Usin	Filmann T. Simpao	12/19/2016	4/30/2018	3/14/2018	12/19/2023	4/30/2024
Patent	12015000364	Adjustable Duster	Marites O. Bersabo	10/19/2015	5/2/2017			5/2/2024
LIM	22015000805	Fruit Opener	Johnny C. Gallardi	10/19/2015	5/2/2017	9/18/2019	10/19/2022	5/2/2024
Patent	12014000309	Shredder Machine	Romel V. Gador, Di	5/11/2014	5/23/2016	9/13/2022	5/11/2034	5/23/2024
Patent	12014000311	A Modified Fruits Picker D	Roger C. Montepio	5/11/2014	5/23/2016	5/24/2023	5/11/2034	5/23/2024
Patent	12014000317	Animal Castration Holder	Ariel D. Abastillas, I	5/11/2014	5/23/2016	7/4/2022	5/11/2034	5/23/2024
UM	22016001110	Mechanical Cacao Fruit I	Roger Montepio, Ki	5/10/2016	5/23/2018	6/28/2021	5/10/2023	5/23/2024
Patent	12014000310	Automated Hot Water Tre	Roger C. Montepio	5/11/2014	5/27/2015	5/24/2023	5/11/2034	5/27/2024
Patent	12014000314	Level Type Flore Device	Arvil John P. Bordic	5/11/2014	5/27/2014			5/27/2024
UM	22014000785	Mechanical Coconut Spli	Raedavy T. Opisar	5/11/2014	5/27/2016	7/3/2019	B/17/2022	5/27/2024
Potent	12014000318	Icina Smonther Machine	Hidy Anni Load White	s/n/onta	5/27/2016	B/4/2021	F/11/2034	5/07/0004

# c. Intellectual Properties Generated

	COPYRIGHT APPLICATIONS FOR IECs				
	TCCR Number	Title			
1	2024-01951-A-TCCR	SMAARRDEC Tri-Fold Brochure for CocoClimber			
2	2024-01953-A-TCCR	SMAARRDEC Tri-Fold Brochure for Rosanna			
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# Partnerships established

a. Signed Letter of Commitment as Implementing Agency

As the lead agency, the University of Southeastern Philippines (USeP) is committed to implementing Regional Knowledge Management under the RAISE UGMARA program in Southern Mindanao.



Capacity Building Activities/Personnel Development

# a. 20 CMIs Graduated from Technology Promotion Mentorship Series (TPMS)

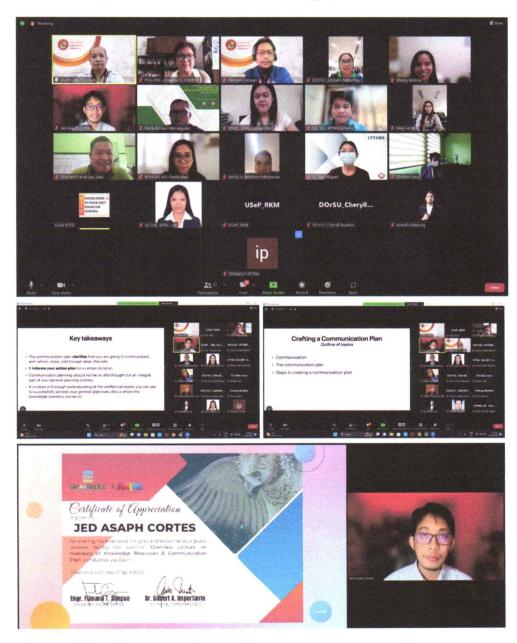
The Technology Promotion Mentorship Series (TPMS), which started on July 18, 2023, culminated on November 14, 2023, where 2 CMIs from USeP, DA-BPI, DdOSC, DNSC, DOrSU, DSSC, KCAST, PCA-DRC, SPAMAST, and UP Mindanao have participated and successfully graduated. The training aimed to build capacity for promoting technologies and/or products that result from the R&D and innovation undertakings of the consortium member agencies in the participating regions.





# b. Overview Lecture on Inventory of Knowledge Resources & Communication Plan

To enhance agencies' understanding of crafting effective communication plans for technology promotion, the project organized a webinar featuring Mr. Jed Asaph Cortes, an expert in Development Communication from Visayas State University. Mr. Cortes shared his valuable experience and expertise in crafting a communication plan and emphasized its significance in promoting technology initiatives. He also discussed the practical utilization of an Inventory of Knowledge Resources for each agency. The webinar engaged all CMIs, providing valuable insights to enhance their technology promotion efforts.



# c. RAISE UGMARA Midyear Review and Strategic Planning

To enhance agencies' understanding of crafting effective communication plans for technology promotion, the project organized a webinar featuring Mr. Jed Asaph Cortes, an expert in Development Communication from Visayas State University. Mr. Cortes shared his valuable experience and expertise in crafting a communication plan and emphasized its significance in promoting technology initiatives. He also discussed the practical utilization of an Inventory of Knowledge Resources for each agency. The webinar engaged all CMIs, providing valuable insights to enhance their technology promotion efforts.

During the second quarter of Year 2, the program organized a Midyear Review and Strategic Planning session at Malagos Garden Resort, Davao City. The purpose was to showcase each agency's accomplishments and address any challenges. The goal was to strategize and identify opportunities for collaboration among the projects to achieve their respective deliverables. Additionally, on the event's final day, Project 4 conducted a Communication Plan drafting session where all agencies presented their plans for critique and improvement by the guest speaker. The outcomes from this session were collected to create one regional communication plan, which will be incorporated into the project's sustainability plan.



#### d. IEC Development Training

The "IEC Workshop on Banner Techs" took place on July 17-18, 2023, at The Ritz Hotel at Garden Oases. The event was facilitated by Dr. Franch Maverick Lorilla, TBI Manager of CDObites at the University of Science and Technology of Southern Philippines. Participants included representatives from various CMIs and four attendees from USeP.

On the first day, the workshop introduced attendees to Information, Education, and Communication (IEC), explored value propositions, discussed case studies, and provided an introduction to Canva. Participants were guided through the process of developing brand kits and creating IECs using Canva. The second day involved a hands-on workshop with coaching, where participants presented their outputs and received feedback. The workshop concluded with the successful creation of 31 IECs, reflecting the practical skills learned during the two-day event.





# e. Communication Plan Consultation with Dr. Lily Ann Lando

On December 13, a virtual activity was conducted via Zoom to review the communication plans (CommPlans) developed by the CMIs. These plans were initially drafted during the Malagos Mid-Year Catchup Planning & Workshop. The purpose of this session was to provide feedback from Dr. Lily Ann Lando, an esteemed expert in communication development and the speaker from the TPMS training.

Prior to the session, the RKM team submitted the draft CommPlans to Dr. Lando for her to review. During the morning of the December 13 activity, she critiqued the drafts and allowed the CMIs time to revise their plans. The original plan was for Dr. Lando to continue critiquing the revisions in the afternoon. However, due to health reasons, she was unable to do so and requested that the revised CommPlans be sent to her via email. The final revisions were then submitted to Dr. Lando in February for her final review.

The morning program included an introductory session, welcome remarks by Dr. Gilbert A. Importante, Director of SMAARRDEC, a rationale by Engr. Rey M. De Leon, and a review of the CMIs CommPlans by Dr. Lily Ann D. Lando. Dr. Evelyn A. Gecale was also present and gave the closing remarks. The program was emceed by Dr. Anulfo S. Masong, the Project Staff Level 1 of RKM.



#### Promotional Activities Conducted

a. Co-organized Regional Technology Pitching during the 35th SMAARRDEC Anniversary

Co-organized the 35th SMAARRDEC founding Anniversary last August 16-18, 2022, held at USeP Gymnasium, Bo. Obrero, Davao City. The project aimed to co-facilitate the whole event, especially on the technology pitching day. It was considered a success as the CMIs of SMAARRDEC presented their research-based technologies in front of potential industry partners.





# b. Agri-Aqua Innovation Pitch Day

To showcase the output and learnings of the TPMS participants, a national Pitch Day was held at Acacia Hotel, Alabang, Muntinlupa City, Manila. This event was organized by DOST-PCAARRD TTPD and was attended by various investors, including Atty. Bayani Loste, who bought the coconut climber on site, one of the technologies promoted by USeP during the TPMS. It was pitched by Mr. Ryan A. Abenoja, the inventor, who won the Best Pitch award in the pitching competition. Aside from that, the RAISE UGMARA also secured second place in the poster competition designed by DSSC for their BioTrichoF Liquid Trichoderma product.





# c. InnoFiesta2022 Pitch Day

The AgiLab joined by the whole USeP KTTD, including the RKM project members organized a pitching contest in congruence with the InnoFiesta2022 activity. This was participated by the USeP incubatees and three members of the consortium—UPMin, DDOSC, and PCA. The event took place in SEDA Hotel J.P. Laurel Ave, Bajada, Davao City on December 14, 2022. Exhibited therein were the agricultural products and agri-technologies by the USeP students and the participating CMIs.





# d. Co-organized during the PAG-UGMAD Pitch Day

The PAG-UGMAD 2023: Regional Agri-Aqua Technology Business Incubation Bootcamp and Pitching Competition took place on November 17, 2023, at The Ritz Hotel in Davao City. This collaborative event, organized by Project 3 in partnership with R-KM, showcased groundbreaking innovations in agriculture and aquaculture. R-KM contributed ₱90,000 towards the food and venue for the event, highlighting its commitment to supporting regional development and innovation.

The event brought together a diverse group of entrepreneurs, researchers, and industry experts, including participants from various CMIs such as USeP, DSSC, DdOSC, DNSC, DorSU, and others. These innovators took the stage to pitch their cutting-edge technologies and business ventures, each hoping to attract potential investors and turn their ideas into reality. Notably, one investor pledged to support the Alalay sa Barangay entrepreneurs, a university-led program aimed at assisting local communities in food entrepreneurship.

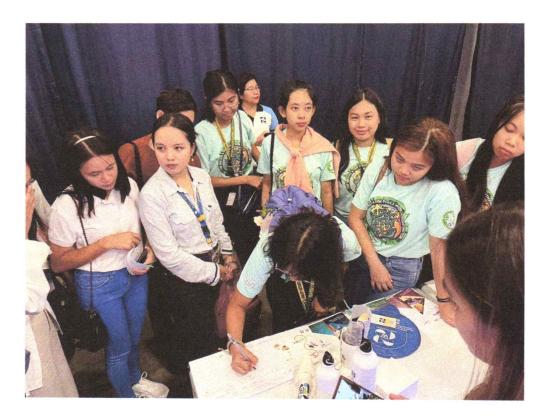
In addition, a spontaneous product photoshoot took place during the event, with one of the investors volunteering to photograph each pitcher's products specifically for their social media pages. This impromptu photoshoot ran simultaneously with the pitching presentations, giving participants an extra opportunity to enhance their online presence and promote their ventures.





# e. SMAARRDEC promotes techs in the 2023 NSTW

On November 21, 2023, the Southern Mindanao Agriculture Aquatic and Natural Resources Research and Development Consortium (SMAARRDEC) participated in the National Science and Technology Week (NSTW) in Iloilo City, showcasing two matured technologies from the University of Southeastern Philippines (USeP): the ROSANNA App and Coco Climber. The R-KM team generated informative brochures for both technologies, which were part of the sustainable agriculture cluster presented by DOST-PCAARRD. These brochures highlighted the applications and benefits of the ROSANNA App, adopted by industry partners in the banana sector, and the Coco Climber, which is currently undergoing patenting. The event attracted various stakeholders, emphasizing the vital role of science and technology in national development.



f. 2023 Regional Science, Technology, and Innovation Week (RSTW) SMAARRDEC featured technology from CMI at the 2023 Regional Science, Technology, and Innovation Week (RSTW) in Tagum City. The R-KM team helped create brochures representing the RAISE UGMARA products, which were showcased at the event. The R-KM team was represented by the SRA and the project leader, alongside SRAs from other regional projects, promoting the RAISE UGMARA products. These brochures played a key role in highlighting the technologies and their contributions to sustainable development.





# g. 36th SMAARRDEC RSRDEH

At the 36th Regional Symposium on RDE Highlights & Farmers and Fisherfolks Forum, held at Davao de Oro State College, SMAARRDEC showcased the RAISE UGMARA project. The R-KM team provided IEC materials for the RAISE UGMARA booth, helping promote the project's innovations. The team was represented by the project leader and the SRA of Project 2, highlighting the synergy of AANR innovation through science and technology in the region.





# Implementing Mechanisms Adopted

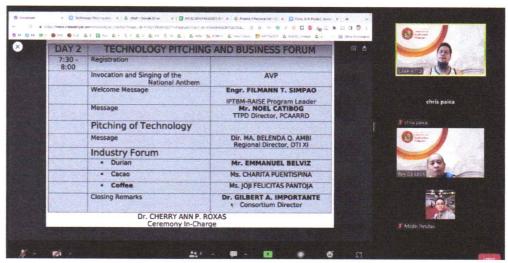
# a. Inception Meeting w/ CMIs Regarding RAISE UGMARA Objectives & Deliverables

USeP initiated an inception meeting attended by all of the participating CMIs of SMAARRDEC last February 22, 2022, at USeP Hostel. The meeting intends to provide information to the participating agencies regarding the program flow, project deliverables, sharing financial practices of USeP, and the overall background/objective of the program.



# b. Coordination Meeting w/ Program Leader

The RKM project leader and the project leaders from the different projects under the RAISE UGMARA, including the CMIs held a coordination meeting via zoom on August 2, 2022, to review the project deliverables.





# c. RAISE-UGMARA Catch Up Planning

A Catch-up Planning was held at the Davao Bamboo Sanctuary and Ecological Park on October 13-14, 2022, where the project showcased and presented its accomplishments, discussed the project deliverables and established a schedule of future activities in sync with the other agency's calendar of activities. The whole RKM project team and the whole consortium attended this.



d. Benchmarking Activity at PhilRice, PhilMech, Central Luzon State University (CLSU), and University of the Cordilleras (UC)

For more effective implementation of the project and the program, the RKM project members and other consortium members conducted a learning visit at PhilRice, PhilMech, CLSU, and UC. It aimed to help the personnel of the RAISE UGMARA program to develop science and technology-based Agri-Aqua Enterprises in the AANR sector and learn the best practices of each institution visited.



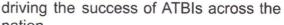






#### e. 2nd National ATBI Conference and the 1st Incubatee Summit

The program's attendance at the 2nd National ATBI Conference and the 1st Incubatee Summit, spearheaded by Benguet State University (BSU) in collaboration with DOST-PCAARRD TTPD, was highly beneficial. This conference provided invaluable knowledge on various issues and top strategies employed by participating ATBIs nationwide, equipping supporters of RAISE UGMARA with essential insights. During the first day, we had the privilege of learning from Dr. Kal Kalayanamitra of the Maejo University Business Incubator (MJUBI), who shared the challenges and successes in developing AANR S&T. This session offered a deep understanding of the practical hurdles and achievements in the field. The second day focused on the diverse partnerships among ATBI partners. Dr. Santiwat Pithakpol from the University of Phayao-ATBI and Prof. Nophea Sasaki from the Asia Institute of Technology (AIT)-ATBI and University of Phayao-ATBI showcased their best practices. Their presentations highlighted the successful approaches and strategies of their ATBIs, providing Consortium Member Institutions (CMIs) of SMAARRDEC with valuable insights into addressing potential future challenges in their ATBIs. By participating in this conference, we gained a comprehensive understanding of the collaborative efforts and innovative solutions









#### f. KM Workshop and RTMS build-up

Held at Aklan, Boracay, the KM Workshop and RTMS data fields finalization was attended by project leaders together with the program leaders on October 20-22, 2022. Discussed therewith are the RKM project deliverables and how each one shall be achieved throughout the following year. In addition, the data fields for the RTMS website. including security measures, were thoroughly deliberated and examined.



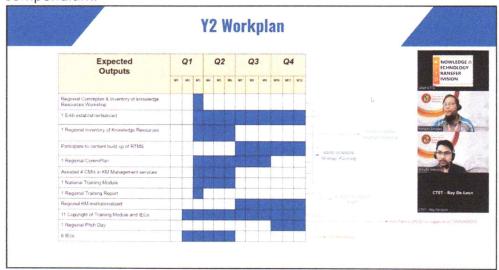


# g. Coordination Meeting with Mr. Jed Asaph Cortes

A coordination meeting with Mr. Jed Asaph Cortes, a faculty from the Visayas State University (VSU) and a member of their region's RAISE initiative, was carried out regarding the planned RAISE UGMARA Strategic Planning 2023. Discussed therein was the program for the Regional Commplan & Inventory of Knowledge Resources Workshop to be conducted in the said regional activity.



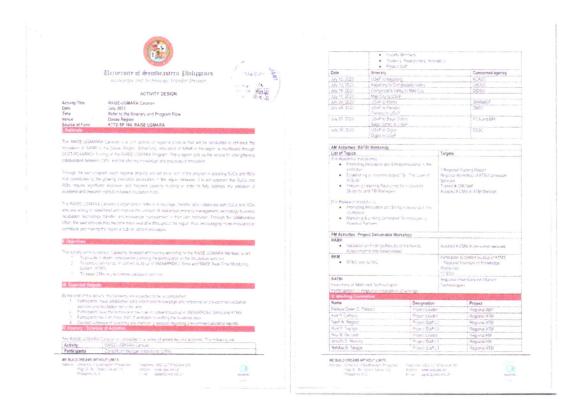
h. Review on KM deliverables and Activity Plotting w/ Program Head In the first quarter of Year 2 implementation, the project members consulted with the Program Head to identify suitable activities that would help achieve the project deliverables within the original timeframe. As a result of these meetings, the following workshops were decided upon: a Communication Plan workshop, an Inventory of Knowledge Resources workshop, and an Information, Education, and Communication (IEC) Workshop, each focusing on the respective agencies' banner technologies. The outputs from these workshops will be collected and compiled by the project team into a comprehensive compendium.



#### i. RAISE UGMARA Caravan

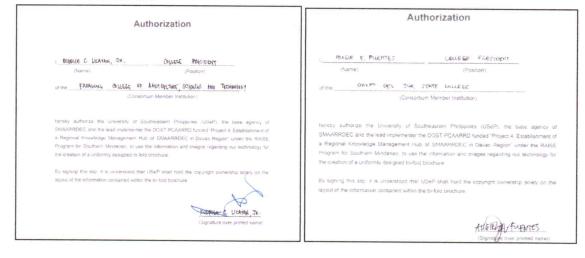
In July, the entire RAISE UGMARA team conducted a Caravan to achieve key deliverables. The R-KM team focused on supporting RTMS content buildup by guiding each SRA on how to input information into the Google Sheet designed to initiate content development while the RTMS site was being constructed. Additionally, the R-KM team aimed to enrich the e-library by collecting IEC materials from various institutions.





# j. Request for permission on the use of each institution's tech information with agency representatives

To meet the target deliverable of copyrighting IEC materials, the R-KM team formally requested permission from each institution to legally use and incorporate information from their technologies. This step ensured that all content used in the IECs complied with copyright regulations and respected the intellectual property rights of each contributing institution.



# AUTHORIZATION I. LEE M. SEROT. Administrative Officer III of the Davao de Oro State College, hereby authorize the University of Southeastern Philippines (USeP), the base agency of SMAARDEC and the lead implementer of the DOST-PCAARRD funded "Project 4 Establishment of a Regional Knowledge Management Hub of SMAARRDEC in Davao Region" under the RAISE Program for Southern Mindanao, to use the information and images regarding our technology for the creation of a uniformity designed tri-fold brochure. By signing this slip, it is understood that USeP shall hold the copyright ownership solely on the layout of the information contained within the tri-fold brochure. LIEM SEROT Inventor of Multi-Plate Grating Device Noted by: Deptah segred tributed to the creation of the creating Device of the crea

Authorization				
I. MARIANITA N. EROY	, ACTING DEPARTMENT MANAGER II			
(Name)	(Position)			
of thePHILIPPINE COCONUT AUTH (Consor	ORITY - DAVAO RESEARCH CENTER ritium Member Institution)			
SMAARRDEC and the lead implementer a Regional Knowledge Management Hu	outheastern Philippines (USeP), the base agency of the DOST-PCAARRD funded "Project 4: Establishment of ub of SMAARRDEC in Davao Region" under the RAISE the information and images regarding our technology for id brochure.			
By signing this slip, it is understood that layout of the information contained within	t USeP shall hold the copyright ownership solely on the the tri-fold brochure.			
	MARIANITA NI EROV			

(Signature over printed name)

#### Problems Encountered

#### a. Deviation from Workplan

The deviation from the original work plan, which necessitated a request for an extension, stemmed from delays in budget allocation during the first year. The funds were downloaded late, resulting in the absence of a dedicated Research Assistant for the initial three quarters. Consequently, progress was initially hindered.

However, after successfully hiring a Research Assistant, the project managed to accomplish most of its target deliverables. The only exception was the institutionalization process, which encountered challenges due to unresolved conflicts within SMAARRDEC regarding the appropriate method for implementation. Efforts to address and resolve these conflicts are ongoing.

# b. Administrative, technical, and financial issues

Several challenges were encountered in the areas of administration, technical execution, and financial management. One significant issue was the delayed download of funds, which hindered timely financial liquidation during the first year and impacted the project's initial momentum. Despite this setback, the team worked diligently to address and mitigate these issues.

As the project progressed, 96% of the allocated funds were successfully liquidated and utilized efficiently, demonstrating effective financial management and resource allocation. Overall, the team's proactive measures ensured that all administrative and technical challenges were resolved, allowing the project to move forward productively.

#### PART III. ANALYSIS/CONCLUSION/RECOMMENDATIONS

# Analysis of Accomplishments

At the onset of the project, considerable time and effort were devoted to planning and coordination meetings aimed at strategizing the achievement of key deliverables. The team initially faced challenges in synchronizing efforts with other programs and efficiently collaborating to meet targets. A notable gap existed in understanding and defining the role of the R-KM team as an integral part of the RAISE UGMARA initiative.

However, as the project progressed, these initial challenges were gradually identified and effectively addressed. The team recognized the critical importance of technology promotion and maintaining a comprehensive inventory of knowledge resources for the program's efficient operation. The development of an organized inventory and the RTMS content buildup enabled SMAARRDEC to stay informed about ongoing projects at the CMIs. This allowed SMAARRDEC to identify promising technologies and provide strategic support to maximize their impact.

Once the inventory and RTMS were established, the project was able to select key innovations for promotion. The R-KM team produced a range of IEC materials to support SMAARRDEC's promotional activities and ensure that the technologies gained public awareness. Furthermore, the team established a Facebook page to enhance social media presence and promote various program initiatives, such as pitch days and upcoming technological advancements. This platform proved valuable for engaging a broader audience and highlighting the program's milestones.

Over the project's duration, the team successfully trained 65 CMIs in various aspects of technology promotion. This training encompassed the creation of IEC materials, effective social media management, and connecting innovators with investors through pitch events. The R-KM team also played a vital role in formulating a comprehensive communication plan for future implementation, guiding CMIs to develop their own plans. These strategic efforts aimed to streamline promotional activities, set clear milestones for each institution, and ultimately drive successful technology promotion and investor engagement.

In summary, the project accomplished nearly all of its target deliverables, with the exception of institutionalization. Nonetheless, the foundation laid during this phase positions the program for continued success. The team remains committed to achieving institutionalization

in subsequent phases, recognizing it as a pivotal goal of the entire RAISE initiative.

#### Lessons Learned

- Determining strategies to ensure timely delivery of project expected outputs,
- Understanding the endeavors of the project, and
- Identifying effective strategies to improve the Regional Knowledge Management project

## • Recommendations/Conclusions (to include Future Plans)

As the project concludes, the team has gained a deeper understanding of its essential role within the RAISE program, particularly in the realm of technology promotion. The team acknowledges that raising public awareness of the innovative initiatives undertaken by each institution is crucial for advancing local agricultural development. By effectively promoting these initiatives, there is a greater opportunity to attract potential investors who can support the evolution and widespread adoption of these technologies, ensuring they reach their intended users and have a meaningful impact.

Based on insights gained throughout the project implementation, the team recommends significantly strengthening the program's social media presence. Social media serves as a powerful platform to engage the public, and consistent weekly posts about new technologies would enhance awareness of institutional efforts. Moreover, adopting a dynamic social media strategy that aligns with the latest trends in social media management is essential to reach and engage a broader audience effectively.

Additionally, the team suggests closer collaboration with the Science Communication Officer of SMAARRDEC. By integrating the project into SMAARRDEC's overarching promotional strategies, the RAISE program can benefit from coordinated efforts to highlight CMI projects more comprehensively. Furthermore, increased coordination with regional projects is advised to streamline activities, enhance resource efficiency, and maximize both time and financial investments. This collaborative approach would ensure the efficient execution of activities, ultimately supporting the overall success and sustainability of the RAISE program.

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