



DEPARTMENT OF AGRICULTURE

Regional Field Office No. 02



2018 ANNUAL REPORT



“ DA-DOS: Matatag at Maayos! ”



Mandate

The Department is the government agency responsible for the promotion of agricultural development by providing the policy framework, public investments, and support services needed for domestic and export-oriented business enterprises.

In the fulfillment of this mandate, it shall be the primary concern of the Department to improve farm income and generate work opportunities for farmers, fishermen and other rural workers. It shall encourage people's participation in agricultural development through sectoral representation in agricultural policy-making bodies so that the policies, plans and programs of the Department are formulated and executed to satisfy their needs.

It shall also use a bottom-up self-reliant farm system approach that will emphasize social justice, equity, productivity and sustainability in the use of agricultural resources.

Vision

The Department's vision is a competitive, sustainable, and technology-based agriculture and fishery sector, driven by productive and progressive farmers and fisherfolk, supported by efficient value chains and well integrated in the domestic and international markets contributing to inclusive growth and poverty reduction.

Mission

To help and empower the farming and fishing communities and the private sector to produce enough, accessible and affordable food for every Filipino and a decent income for all.

Our Story Line (2018-2023):

“Developing resilient agripreneurs toward inclusive growth”

Quality Policy

We, the **DEPARTMENT OF AGRICULTURE - REGIONAL FIELD OFFICE 02**, commit to transform our agriculture sector into empowered farming communities through inclusive growth.

We shall build an enabling environment for agriculture to grow and be globally competitive in a diversified regional economy. As our moral obligation, we shall contribute to nourish and sustain every Filipino's need and right to enjoy sufficient, safe, accessible and affordable food at all times.

In Responding, Engaging and Delivering our programs and services, we shall be guided by the principles of social justice and equitable development, imbued with the values of loyalty, integrity, resourcefulness, teammanship, service-orientedness and continuous learning.

We shall continually improve our Quality Management System to be better, more responsive and relevant in making a difference **"PARA SA MASAGANANG AGRIKULTURA, MASAGANANG BANSA"**.

Our Core Values

1. Loyalty
2. Integrity
3. Resourcefulness
4. Innovativeness
5. Teammanship
6. Service-orientedness

Our Motto:

"DA-DOS, Matatag at Maayos!"

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message from the Regional Executive Director

Upon concluding the Regional Agriculture & Fisheries Modernization Program for the Years 2012 to 2017 in which the Department of Agriculture Regional Field Office No. 02 had adopted the **Battlecry: Transforming Agriculture in Cagayan Valley from Maroon (“marun-runot”) to Green**, this year, we started to shift towards attaining out new goals, however, sustaining our performance and building on challenges and opportunities for continual improvement and innovation.

Our vision for the successor Regional & Fisheries Plan 2018-2023 adopts the previous with emphasis on resiliency and sustainability. We are guided by our new Story Line: **“Developing Resilient agri-preneurs toward inclusive growth”**. Strategies on how to sustain food self-sufficiency as well as to develop small farmer-players along commodity value chains into businessmen or entrepreneurs and become highly competitive in the market while harnessing their resiliency against market forces; and economic and climate risks and hazards.

To start operationalizing our strategic goal, this year, we accomplished more than the targeted group beneficiaries for market development services or equivalent to 146% individual, extension workers (110%) and individual farmer-beneficiaries (104%) were also provided with training support services. All the proposed 94 farm-to-market roads subprojects for construction equivalent to 52.2 kilometers and all the 151 farm to market roads sub-projects were completed, validated, and geotagged.

Based on the Program Expenditure Classification (PREXC) Accountability Report Card of Department of Agriculture Regional Field Office 02 from January to December 2018, all provinces of Region 02 were satisfied with the technical support services and validated the timely delivery of production support services provided to them by the Department. All provinces were satisfied with the agricultural machinery, equipment, facilities, and installation of small-scale irrigation projects provided to them by the Department with 2,597 out of 2,952 hectares of service area generated.

We are proud of our accomplishments and together with our development partners and alliances, let us act cohesively to focus on achieving worthy results and outcomes.

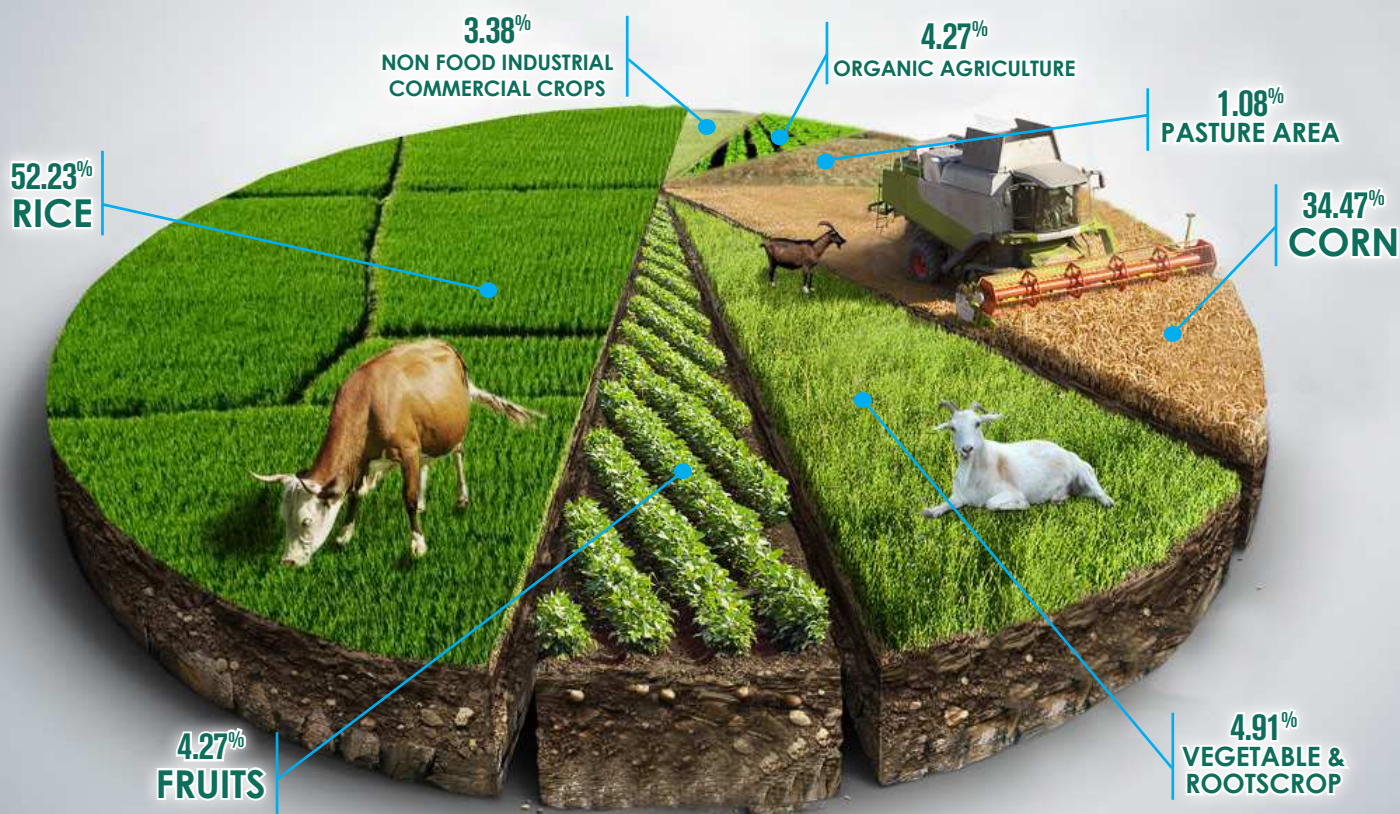


DIR. NARCISO A. EDILLO, M.A.Ed.
Regional Executive Director



Delivery of Goods and Services

The CY 2018 performance highlights the notable achievements and major development of DA-RFO 02 in terms of the delivery of services to various clients and stakeholders of the agriculture sector in the region covering the period January to December of said year. In compliance to the general provisions of the 2018 General Appropriations Act (GAA for CY 2018, there were targets and commitments set toward achieving the outputs and outcomes of the Department under its Program Expenditure Classification (PREXC).



CAGAYAN VALLEY		AREA
RICE		562,017.51
CORN		385,660.25
ORGANIC AGRICULTURE		18,583.18
PASTURE AREA		12,033.00
FRUITS		47,822.92
VEGETABLES & ROOTCROPS		54,881.13
NON FOOD AND INDUSTRIAL COMMERCIAL CROPS		37,835.03
TOTAL		1,118,833.02

Source: PSA 2018, DA-RFO 02 Organic Agriculture Program

CY 2018 PREXC Accountability Report Card

Technical Support Services Program



125%

All 5 Provinces were satisfied with the technical support services provided to them by the Department



100%

All 5 provinces validated the timely delivery of production support services provided to them by the Department



146%

More than the targeted 26 Group beneficiaries were provided with Market Development Services



104%

More than the targeted 50 Individual Extension Workers were provided with Training Support Services



110%

More than the targeted 1,500 Individual Farmer beneficiaries were provided with Training Support Services.

Agricultural Machinery, Equipment, Facilities and Infrastructures Program



125%

All 5 Provinces were satisfied with the agricultural machineries, equipment, facilities and installation of small-scale irrigation projects provided to them by the Department



88%

2,597 out of 2,952 hectares of Service Area Generated



100%

Validated all the proposed 94 FMR subprojects for construction equivalent to 52.2 kilometers



104%

All the 151 FMR sub-projects completed by DPWH in the region were validated and monitored

CY 2018 Financial Performance

MFO/ PROGRAMS/ PROJECTS	Approved Budget (GAA) ('000)	Disbursement ('000)	% Performance
PROGRAMS			
I. General Admin & Support Services (GASS)	58,567.0	56,435.6	96%
II. Support to Operations (STO)	119,263.0	108,168.91	91%
III. Operations			
National Rice Program	1,612,795.0	1,461,330.3	91%
National Livestock Program	55,525.0	55,393.9	100%
National Corn Program	396,361.0	338,785.1	85%
National High Value Crops Program	201,949.0	178,863.9	89%
National Organic Agriculture Program	52,048.0	48,521.7	93%
Various Operations (MDS, PPS, R&D)	110,726.0	110,596.8	100%
MFO 4. Farm to Market Road Network Services	2,001.0	2,001.0	100%
MFO 6. Agriculture & Fishery Regulation Services	12,885.0	12,885.0	100%
TOTAL CURRENT APPROPRIATIONS	2,622,120.0	2,372,982.0	90%
AUTOMATIC APPROPRIATIONS	12,273.0	11,973.4	98%
TOTAL APPROPRIATIONS	2,634,393.0	2,384,955.0	91%



Milestones on Increasing **Productivity & Income**



RICE PROGRAM

The Rice Program envisions Region 02 to become the new Rice Bowl of the Country. Through various strategies and interventions implemented, the goal of the program is for Region 02 to become the major producer and supplier of quality rice in Luzon.



Goal

Region 02 as a major producer and supplier of quality rice in Luzon.

- High Yielding
- High Milling Recovery
- Excellent Eating Quality
- Preferred by Farmer

Objective:

The Rice Development Program aims to increase rice productivity and develop rice-based entrepreneur in the Region. To attain and sustain Annual Growth Rate (AGR) of at least 3% from 2018 to 2023, to increase average yield per hectare from **4.25 MT/Ha in 2018** to **4.79 MT/Ha in 2023** and to contribute by at least **2,580,911 MT** to the national target by 2018 and **2,916,572 MT** by 2023.



253%

Sufficiency Level

2nd Rank

Cagayan Valley as
Rice Producer in the Philippines

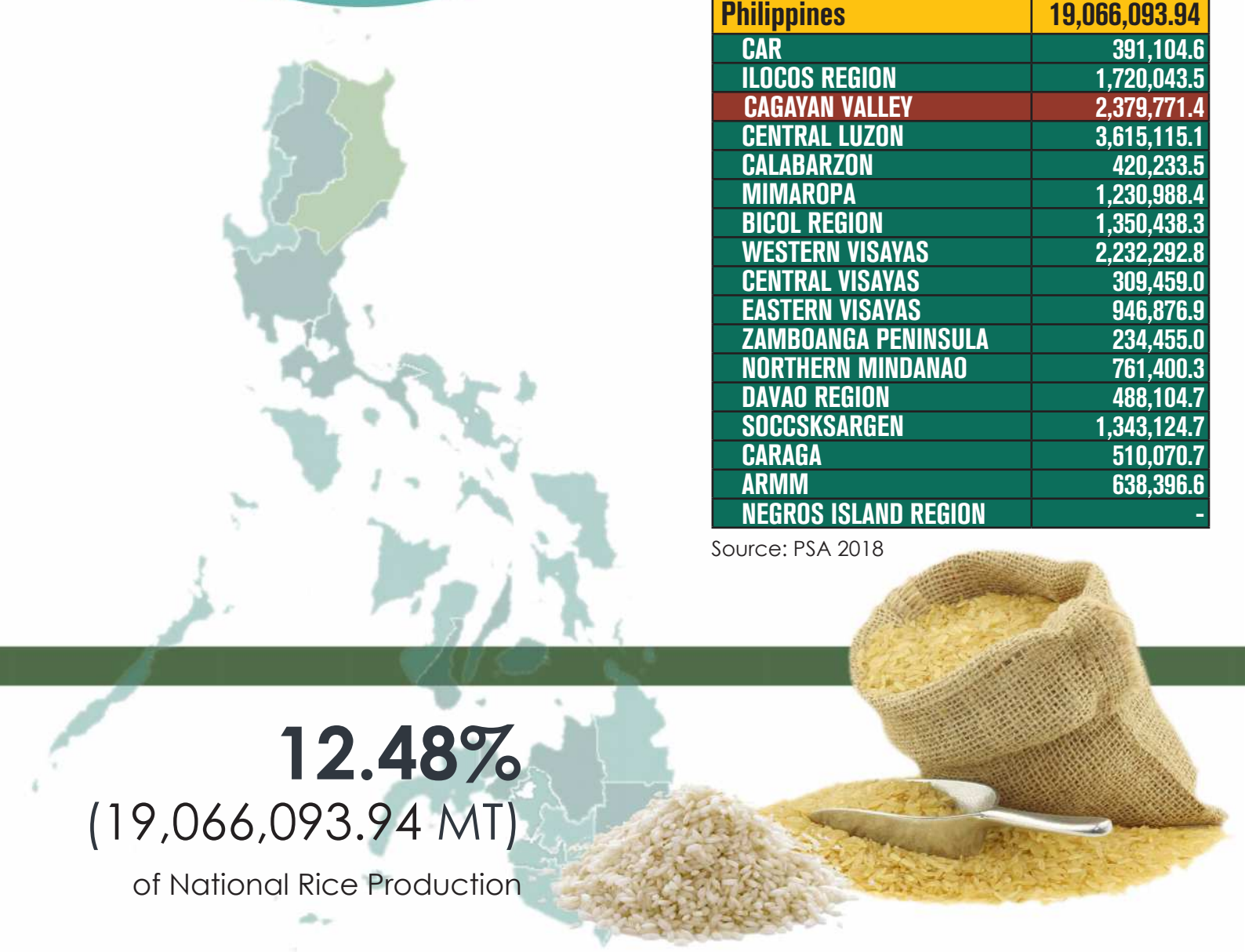
Table 1. Production by Province

CAGAYAN VALLEY	2,379,771.4
BATANES	70.42
CAGAYAN	832,941.0
ISABELA	1,188,584.0
NUEVA VIZCAYA	270,070.0
QUIRINO	88,106.0

Table 2. Production by Region

Philippines	19,066,093.94
CAR	391,104.6
ILOCOS REGION	1,720,043.5
CAGAYAN VALLEY	2,379,771.4
CENTRAL LUZON	3,615,115.1
CALABARZON	420,233.5
MIMAROPA	1,230,988.4
BICOL REGION	1,350,438.3
WESTERN VISAYAS	2,232,292.8
CENTRAL VISAYAS	309,459.0
EASTERN VISAYAS	946,876.9
ZAMBOANGA PENINSULA	234,455.0
NORTHERN MINDANAO	761,400.3
DAVAO REGION	488,104.7
SOCCSKSARGEN	1,343,124.7
CARAGA	510,070.7
ARMM	638,396.6
NEGROS ISLAND REGION	-

Source: PSA 2018



12.48%

(19,066,093.94 MT)
of National Rice Production

Production Support Services

Hybrid Seed Support for Top 20 Rice-producing Provinces

In the region, the project covers Isabela and Nueva Vizcaya province wherein seeds of hybrid varieties are distributed as yield-boosting technologies. A total of **1,314,760 kg.** seeds have been procured under the project. **971,893 kg** distributed to **44,035 farmer-beneficiaries (FBs)**.

The Inbred Seed Exchange Program covers the Provinces of Cagayan and Quirino. Under this project, **85,790 kg registered seed (RS)** were distributed to **1,935 farmer-beneficiaries (FBs)** in support to High Yielding Technology Adoption (HYTA) for inbred rice areas.

Moreover, **1,495,344 kg certified seeds** were also distributed to **39,624 farmer-beneficiaries (FBs)**.

Extension Support, Education and Training Services

Deployment of RCM Recommendations & Intensive Field deployment of RCM II by RFOs

Rice Crop Manager (RCM) provides immediate fertilizer recommendations to farmers. Through interviews conducted on the previous farm practices of farmers in the region, **39,553 RCM recommendations** were already generated and distributed to farmers under Intensive Hybridization (RPP).

Hybrid Rice Model Farm

Hybrid Rice Model Farm aims to showcase the yield increase using appropriate hybrid varieties and fertilizers. A total of **18,974 ha.** were established with **25,227 farmer-beneficiaries**.



Support to Sikat Saka/ Other Credit Program

A total of **11 batches** of training on Sikat Saka Credit Program were also conducted and participated by **1,342 farmers in Region 02**.

Strengthening of Existing Farm Service Providers

This subproject aims to capacitate farm service providers with necessary skills, knowledge and attitude through capability building activities, institutional building and provision of basic equipment that would enhance the quality of their services. There were **15 associations** strengthened under this subproject.

The following were the strengthened associations with corresponding date of consultation/capability building activity:

Association	Province/ Municipality	Date
Rang-Ay Dagiti Mangmanged Ti Claveria Farm Service Providers	Claveria, Cagayan	April 26, 2018
TDS Farm Service Providers Association	Tungel Grande, Baggao, Cagayan	May 4, 2018
Cabatuan (Macalaoat) Farm Service Provider Association	Cabatuan, Isabela	May 24, 2018
Dadap Farm Service Providers' Association	Solano, Nueva Vizcaya	June 20, 2018
Timpuyog Dagiti Mangmanged Ti Dagupan Association	Aglipay, Quirino	June 20, 2018
Murong Service Provider Rural Workers	Bagabag, Nueva Vizcaya	June 21, 2018
Incangan FSP	Cabatacan East, Lasam, Cagayan	July 18, 2018
Lamu FSP	Inaban, Mabasa, Dupax del Norte	August 15, 2018
San Luis Service Providers Group & Panagkaykaysa Ti Mannaon ti Viga	Aurora, Isabela	August 16, 2018
Cabatuan Federation	Cabatuan, Isabela	September 19, 2018
LBC Farm Service Provider Association		October 9, 2018
Rang Ay Dagiti Mangged Ti Claveria	Claveria, Cagayan	October 19, 2018
Murong & Sta. Cruz Provider Rural Worker	Bagabag, Nueva Vizcaya	October 19, 2018

Strategic Micro-enterprises for Rice-based Farms and Communities

Community-based Mushroom Production Project aims to showcase the use of rice straw as substrate for mushroom production and income-generating/livelihood for rice farmers in the region. About **22 enterprises were set-up** in the region for CY 2018.



Research and Development Services

The R & D projects implemented are attuned to the updated Rice Regional Integrated Research & Development Extension Agenda Program (RIRDEAP) and to the guidelines/ major strategies set during the National Rice R&D.

Aside from the two (2) R&D categories, there were projects conducted to address regional needs and priorities.

There are **83 R&D projects currently conducted** for CY 2018. Under the National Rice R&D projects, **22 projects are implemented**. **Three (3) R&D projects are implemented** under the DA-IRRI Partnership in Support to FSSP Sustaining Rice Self Sufficiency in the Philippines, namely, Next Gen, PRIME and RCM. The **17 projects are conducted** under the Strategic Rice R&D/E FSSP Support Projects, mostly, related to mushroom projects.

For the Regional Rice R&D projects, **61 projects are currently implemented**. These projects are categorized as production, market, postharvest, policy, irrigation & collaborative R&D with other institutions. Under the production-related projects, there were **31 projects implemented** in the different ecosystems. The other 30 projects are distributed on the other categories.

Under the R&D Support to facilities, there were **five (5) equipment procured** for the different laboratories of DA RFO 02.



Agricultural and Fishery Machineries, Equipment and Facilities Support Services

Farm Production-Related Machinery

A total of 28 units of four-wheel drive Tractors were distributed (with rotavator, disc plow, disc harrow, trailer, 35 hp with paddle wheel) to 10 farmer associations in Cagayan, 14 in Isabela, three (3) in Nueva Vizcaya and one (1) in Quirino.

A total of 17 units of walk-behind transplanters were distributed to four (4) associations in Cagayan, nine (9) units in Isabela, and four (4) in Nueva Vizcaya. On the other hand, 16 units of precision seeders were also distributed to four (4) associations in Cagayan, nine (9) units in Isabela, one (1) unit in Nueva Vizcaya, and two (2) in Quirino province.

Postharvest Machinery and Equipment

A total of 30 units of combine harvesters were distributed to 12 farmer associations in Cagayan, nine (9) in Isabela, six (6) in Nueva Vizcaya and three (3) in Quirino.

A total of three (3) units Rice Mill are targeted to be distributed to three (3) associations.



Completion and Turn-Over of Climate-Resilient Structures

Cagayan Valley one of the highways of natural disasters being visited by as many as 12 typhoons every year focuses on projects/ interventions that will broaden farmers & fishers access and participation in value chain development and increase resilience of communities to economic risks, man-made, and natural disasters.

Monolithic Dome Warehouse – a dome costing P10 Million is a climate-smart warehouse of agricultural inputs. This structure could withstand typhoon signal number five (5) and can also be used as evacuation center for human in cases of calamities. The dome measures 8.5 x 15 x 30 meters with 9,000 bags at 50 kg/bag storage capacity.

Four (4) monolithic dome warehouses were constructed in Abut, Quezon, Isabela, Alinam, Cauayan City, Dungo, Aglipay, Quirino and Magbitin, Villaverde, Nueva Vizcaya. On-going construction of four (4) monolithic dome located in Masical, Baggao, Cagayan, Rizal, Santiago City, Cauayan City, Isabela, and Bagabag, Nueva Vizcaya.



Irrigation Network Services

Construction of Small Water Impounding Project (SWIP)

Six (6) units SWIP were already constructed in Allacapan & Iguig Cagayan, Mallig, Quezon & Tumauni Isabela and Maddela, Quirino. Construction of one (1) unit each in Claveria (70.34%) & Abulug Cagayan (95%) is on-going.

Construction of Diversion Dam

Of the three (3) units programmed to be constructed under this subproject; two (2) projects were completed. These are located in Sta. Teresita, Cagayan and Dupax Del Norte, Nueva Vizcaya. Construction is ongoing for the remaining one (1) unit in Claveria, Cagayan at 83%.

Solar Powered Irrigation System (SPIS)

Construction of six (6) units SPIS, two (2) completed located at Sto. Niño and Luna Isabela. Four (4) units on-going located in Aparri, Cagayan (92%), Enrile, Cagayan (74%), Ilagan City, Isabela (90%) and Gamu, Isabela (80%).

Rehabilitation of Small Water Impounding Project (SWIP)

Rehabilitated, three (3) units of SWIP at Bukig in Aparri Cagayan; at Nagbitin in Villaverde, Nueva Vizcaya; and one (1) at Dipintin in Maddela, Quirino.

A total of 830 farmer-beneficiaries with additional 599 service area is expected to be irrigated for CY 2018.



CORN & CASSAVA PROGRAM

The Cagayan Valley Region aimed to sustain its position as a major producer, supplier and user of world class corn for food, feeds and industrial uses. As such for CY 2018, Corn Development Program focused on two (2) objectives as follows:

1. Increasing productivity from average yield of 4.42 MT/ha to 4.60 MT/ha.
2. Improving quality of production and reducing postharvest losses.



For CY 2018, Region 02 has a total corn production of **1,630,581 metric tons**. The production for the year was affected by calamities caused by drought, Typhoons “Omping” and “Rosita”.

The following strategies are being implemented to address the program goals and objectives:

Promotion of productivity enhancing and cost-reducing technologies

Area expansion for idle and new areas suited for corn and cassava production

Enhancing farm mechanization/postharvest facilities to reduce losses and improve quality

Area expansion for idle and new areas suited for corn and cassava production

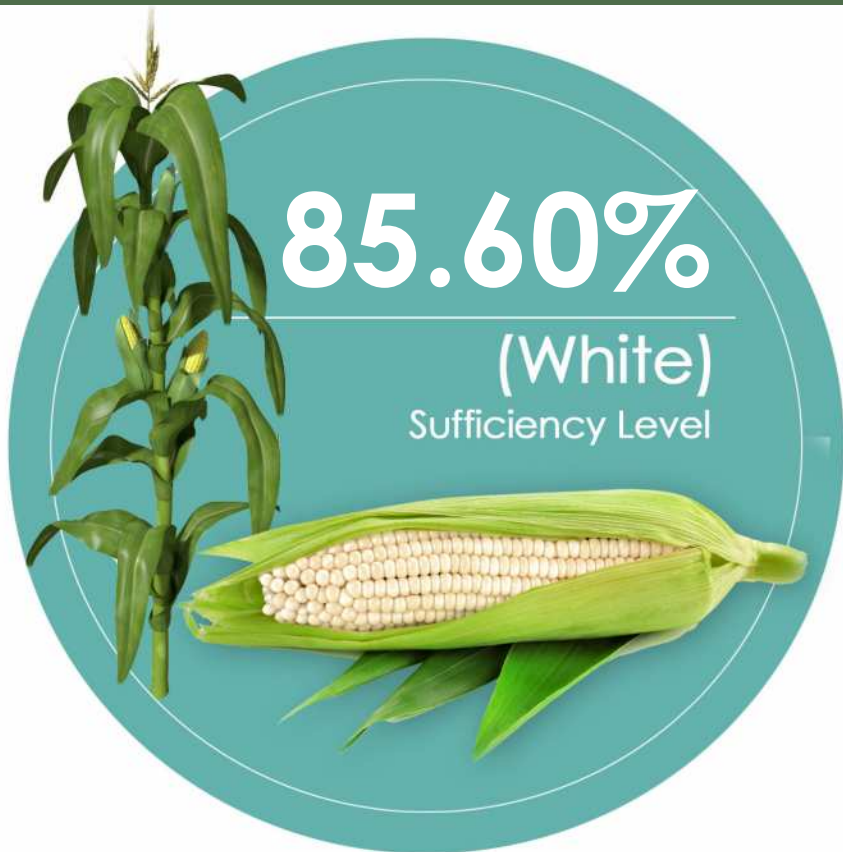
Research and Development to improve productivity and quality

Enhancement of Market Development Services

Strengthening of support to GAP Certification towards ASEAN Competitiveness

Adaptation to climate change

Advocacy for Sustainable Corn production on Sloping Areas (SCoPSA)



1st Rank

Cagayan Valley as
Corn Producer in the Philippines

Table 1. Production by Province

CAGAYAN VALLEY	1,625,325.4
BATANES	235.9
CAGAYAN	368,946.0
ISABELA	1,015,642.5
NUEVA VIZCAYA	75,429.0
QUIRINO	165,072.0

Table 2. Production by Region

Philippines	7,771,918.6
CAR	207,439.2
ILOCOS REGION	560,885.0
CAGAYAN VALLEY	1,625,325.4
CENTRAL LUZON	271,944.5
CALABARZON	91,418.1
MIMAROPA	130,146.4
BICOL REGION	279,731.9
WESTERN VISAYAS	310,838.8
CENTRAL VISAYAS	127,602.0
EASTERN VISAYAS	74,197.3
ZAMBOANGA PENINSULA	258,909.9
NORTHERN MINDANAO	1,289,538.0
DAVAO REGION	274,674.7
SOCCSKSARGEN	1,231,074.0
CARAGA	135,626.6
ARMM	902,566.9
NEGROS ISLAND REGION	-

Source: PSA 2018

20.91%
(7,771,918.6 MT)
of National Corn Production



Production Support Services

1. From the **(ten) 10 ha established** on-station seed production (OPV white corn), **481 bags** are produced and distributed to farmer-beneficiaries.
2. Seed reserves of **3,872.5 bags** of white corn was procured to be distributed to drought affected areas in Cagayan, Isabela, Nueva Vizcaya and Quirino.
3. Supported promotion and utilization of location-specific and market-preferred improved varieties of cassava through on-station and on-farm planting materials production of three **(3) ha (nursery)** serves as ready source for distribution of **300,000 seed pieces** quality planting materials to farmer-beneficiaries.



Marketing Development Services

Provided stakeholders monthly price information and conducted three (3) market matching projects through: forum or conference for potential agri-preneurship for yellow corn, white corn and cassava; agri-business investment opportunity seminar; and product development (Enhancement of corn-rice blend product packaging).



Extension Support, Education & Training Services

1. Established 50 ha. model farm for white corn in Calamagui, Sta. Maria, Isabela and 30 ha. model farm for cassava in Sta. Victoria, Naguilian, Isabela.
2. Conducted and established 30 sites/techno-demo trials for Sustainable Corn Production on Sloping Areas (SCoPSA) showcasing attainment of 8-14 MT/ha optimum yield.
3. Capacitated/improved technical know-how of corn growers to produce high-yield and quality corn through the conduct of six (6) Bantay Peste Brigade trainings, ten (10) Good Agricultural Practices (GAP) training and seven (7) other seed production and processing related trainings, technical briefings and meetings participated by 1,028 participants (Corn Farmer-Led Extensionist, Corn Farmers, Task Force Mais members/ DA Staff and AEWs).
4. Instrumental in the development of entrepreneurial skills of cassava farming households which is carried out in the conduct of ten (10) Livelihood Trainings, four (4) GAP training and 15 other cassava value-adding and production related trainings, technical briefings and meetings participated by 1,106 participants from Local Government Units, Cassava Farmers, Rural Improvement Club (RICs), SUC-OJTs, DA Staff and AEWs.
5. Extended support-incentives to the extension related services/undertakings of four (4) Provincial Corn Coordinators, 14 Municipal Agriculturists, and 128 Agricultural Extension Workers from the Provincial and Municipal Local Government Units hence, the facilitative submission of needed reports relative to project field implementation and monitoring.
6. Improved technology access by corn farmers/stakeholders to improve technologies/information through distribution of 8,484 pieces IEC materials/flyers/booklets to corn and cassava farmers in Region 02. The titles of the distributed IEC materials are the following:
 - For Corn, namely; “Good Agricultural Practices(GAP) for Corn”, Aflatoxin”, “Jabber Planter”, “Contour Farming”, and “Bio-N”.
 - For Cassava, namely; “Cassava Production Guide” and “Cassava Recipe”.

Research and Development Services

1. Initiated the improvement/refinement and development and promotion of production technologies and varieties through the conduct of ten (10) R & D projects/studies particularly on white corn breeding project.
2. Implemented Farmers Participatory Technology Development Projects and monitored four (4) studies/researches (on-station/on-farm).
3. Conducted two (2) research on development and enhancement of new cassava food products in Region 02.
4. Enhanced mechanization on land preparation, planting, harvesting and post-harvesting/processing for reduced production cost through the allocated and distributed 15 units four-wheel drive tractor for corn and cassava, nine (9) units corn planter, seven (7) units combine harvester, four (4) units cassava digger, 15 units cassava grater with presser, 19 units cassava chipper, 12 units cassava granulator and one (1) unit generator set. A total of 82 group farmer beneficiaries were benefited from the interventions.



Irrigation Network Services

Allocated and distributed **645 units** Pump Irrigation System-Open Source (PISOS) to corn farmers serving drought-prone production areas of **1,946 hectares**.



Other Notable Accomplishments

Developed new Open Pollinated Varieties (OPV)

- Glut: Variety Name - CVRC Glut # 12, NSIC Registration Number - NSIC 2018 Cn 316, 5.32 t/ha yield)
- Yellow: Variety Name - CVRC Cn 15, NSIC Registration Number - NSIC 2018 Cn 314, 5.64 t/ha yield)

Contributory to the consistent garnering of National Quality Corn Achievers Awards

- Outstanding Province (Province of Cagayan)
- Outstanding Provincial Corn Agriculturist (Dr. Pearlita Lucia P. Mabasa)
- Outstanding Provincial Corn Coordinator (Mr. Joel P. Moreno)
- Outstanding City/Municipality (1 City/6 Municipalities)
- Outstanding Municipal/City Agriculturist (1 City/4 Municipal Agriculturists)
- Outstanding Municipal/City Coordinators (1 City/2 Municipal Coordinators)
- Outstanding Agricultural Extension Workers (25 AEWs)



HIGH VALUE CROPS PROGRAM

DA-RFO 02 envisioned empowered resilient high value crops farmers producing globally competitive fruits and vegetables.

The program aims to increase production, develop markets and marketing support, and harness value-adding to open livelihood opportunities toward increasing income.



PRODUCTION (MT), 2018

Vegetable Crops - 359,183.11

Fruit Crops - 437,979.20

Beans and other vegetables - 16,494.37

Source: PSA 2018

Priority Commodities

Red Onions

To support the blooming industry of spices in Region 02, the High Value Crops Development Program procured 1,100 kilograms of Red Onion seeds and distributed to five (5) farmers group, and eighteen (18) LGUs in the province of Isabela and Nueva Vizcaya. This was planted in 228.0 has.

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Isabela	100	100
Nueva Vizcaya	900	1,000
TOTAL	1,100	1,100



Lowland Vegetable

The program aims to have sufficient supply of quality and affordable lowland vegetable throughout the year. Through the production support, a total of 3,026 kilograms of assorted lowland vegetable seeds were procured and distributed to twenty-one (21) farmers group, and thirty-two (32) LGUs in the province of Isabela, Cagayan, and Quirino. This was planted in 378.94 has.

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Isabela	1,600	1,640
Cagayan	1,113	1,113
Quirino	313	313
Total	3,026	3,066



Upland Vegetable

To support the Upland Vegetable Growers in the province of Nueva Vizcaya, Quirino and Batanes, the program office procured 1,364 kilograms, and distributed to twenty (20) farmer's groups, and twenty-one (21) LGUs. This was planted on 221.0 hectares.

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Nueva Vizcaya	1,000	1,000
Quirino	300	300
Batanes	64	64
Total	1,364	1,364



Seed for Buffer Stocking

Production of vegetable seeds which served as buffer stock and distributed to the areas damaged by calamities of Typhoon Ompong. For lowland vegetables, six hundred fifty-four (654) kg in Isabela, one thousand forty-seven (1,047) kgs in Cagayan, four hundred thirty-six (436) in Quirino and forty-six (46) kg in Batanes were distributed to their respective Provincial/Local Government Unit. For upland vegetables, five-hundred (500) kg were distributed to Nueva Vizcaya.

Lowland Vegetables Production

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Isabela	654	654
Cagayan	1,047	1,047
Quirino	436	436
Batanes	46	46
Total	2,183	2,183

Upland Vegetables Production

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Nueva Vizcaya	500	500
Total	500	500

Citrus

Citrus production is a booming industry in the region. The registration of “Siamese Abulug Sweet Pummelo” as fruit variety boosted the production of pummelo. To support the industry, 72,000 pcs. of seedlings were procured; distributed to the twenty-two (22) farmers groups and ten (10) LGUs in the region.

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Isabela	10,000	10,000
Cagayan	30,000	30,000
Quirino	10,000	6,500
Nueva Vizcaya	22,000	22,000
Total	72,000	68,500



Coffee

Coffee production was once a profitable industry in the Region. Coffee is one of the priority commodities in Region 02 since 2011 through the Convergence Initiative Project implemented by different agencies. Various support programs had been done such as distribution of planting materials and farming inputs to support the establishment and maintenance of coffee plantations. In fact, some of the distributed planting materials are now in bearing stage. With that 64,669 coffee seedlings were procured and distributed to, two (2) farmers groups and three (3) LGUs. This was planted in 64.69 hectares.

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Quirino	21,341	21,341
Nueva Vizcaya	43,328	43,328
Total	64,669	64,669



Cacao

Another blooming industry in Region 02 is the cacao. As support to the production of cacao 130,270 cacao seedlings were procured and 121,462 pcs were distributed to the three (3) farmers groups and seven (7) LGUs. This was planted in 243.35 hectares.

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Isabela	19,540	10,732
Cagayan	97,702	97,702
Quirino	6,514	6,514
Nueva Vizcaya	6,514	6,514
Total	130,270	121,462



Sweet Potato

Sweet potato is one major income sources of marginal farmers due to its low external input requirement. The province of Batanes and Nueva Vizcaya produced 2,593,178 cuttings out of the target 2,500,000 cuttings, and distributed to five (5) group and seven (7) LGUs. This was planted in 243.35 hectares.

PROVINCE	TARGET (kgs)	DISTRIBUTION (kgs)
Batanes	1,500,000	1,593,178
Nueva Vizcaya	1,000,000	1,000,000
Total	2,500,000	2,593,178



Support to Technology Demonstration (Rehabilitation of Old Trees)

Another support to the Coffee Industry, rehabilitation of old trees using controlled fertilizer for the increase of production in every coffee farmer. Fertilization conducted in ten (10) sites and with the total of 499,709 coffee trees fertilized in the province of Cagayan, Isabela, Nueva Vizcaya and Quirino. Fertilization conducted in four (4) sites and with the total of 100,027 cacao trees fertilized in the province of Cagayan.



Marketing Development Services

2nd Coffee Business Forum and Brand Launching

Conducted the 2nd Coffee Business Forum and Brand Launching to promote the coffee produced from the Region Eleven (11) coffee products are launched. Namely (1) Nueva Vizcaya Blend, (2) Disadeco Coffee, (3) Cool Mist Coffee, (4) Collagen, (5) Quirino Mountain Blend, (6) Gamafa, (7) Ambaguio Finest, (8) Café Sta. Fe, (9) Barako Boy Coffee, (10) Angadanan Robusta Blend, (11) Claveria Seebreeze Coffee held at Dreamwave Hotel, Ilagan City, Isabela last April 26, 2018.

3rd Regional Cacao Business Forum

Conducted the 3rd Regional Cacao Business Forum to promote the cacao products from Region 02. The twelve (12) product launched are the following: (1) Terry's Creamy Cacao Candies, (2) Terry's Cacao Vinegar, (3) Hilario's Cacao Nibs, (4) Hilario's Cacao Tablea, (5) Flinch Cacao Powder, (6) Flinch Cacao Vinegar, (7) Flinch Cacao Bars, (8) Capatan Cacao Spread, (9) Capatan Tablea Muscovado, (10) Biba Foods Mixed Crunch, (11) Bangaan Cacao Polvoron, (12) Angel-Reign Cacaolets.





Agricultural and Fishery Machineries, Equipment and Facilities Support Services

Power Sprayer

Three (3) units of power sprayer were distributed to Rizal Mango Growers Association, Isabela Mango Growers Association, and Bugkalot Coffee Growers.

Establishment of Production Facilities

Establishment of six (6) units nursery which included two (2) units for Cagayan, two (2) units for Isabela, one (1) unit for Quirino, and one (1) unit for Nueva Vizcaya. One (1) unit Foundation Scion Grove at Sta. Victoria, City of Ilagan, Isabela given to Sulong Farmers Credit Cooperative with the area of 0.5 hectares. One (1) unit Clonal Garden in Gamu, Isabela given to Payoga Kapatagan Multi-Purpose Cooperative with the area of 0.5 ha and planted with cloned coffee. One (1) unit Budwood Garden at Panang, San Agustin, Isabela given to Kaddua ti Panag-rang ay Credit Cooperative farmer's association with the area of 0.5 ha and planted with 556 cacao seedlings and establishment of School Garden to 500 Schools in the region.

Another support to the blooming coffee industry in Region 02, the establishment of four (4) units Coffee Roasting Facilities.



Irrigation Network Services

Small Scale Irrigation Project (SSIP)

Spring Development Project composed of diversion/intake structures, storage tanks (concrete/steel tank, 10 cum./plastic tank) and diversion pipes (high density polyethylene pipes and fittings). Construction of 25 units benefited 14 BLGU's and 11 farmers group, with the service area of 200.0 hectares, out of the 30 units target in the region.

Solar-Powered Irrigation

Construction of 16 units benefited 11 BLGU/MLGUs and 5 Farmers group/ association with the service area of 67.75 hectares.



LIVESTOCK PROGRAM

The program envisions Cagayan Valley as a major source of quality breeder stocks of cattle, goat and sheep. Its objective is to propel economic growth in the region through increased production and income of the livestock farmers. It has set a goal of increasing livestock and poultry population and raisers income by 10% in the year 2022 reckoned on the year 2018.

GROWTH RATE, VOLUME OF PRODUCTION AND SUFFICIENCY LEVEL OF MAJOR LIVESTOCK AND POULTRY SPECIES

Commodity	Increase Population 2017 VS 2018 (%)	Production (MT) (Meat)	Sufficiency Level (%) (Meat)
Chicken	-9.08	57,893.71	63.28
Duck	1.90	2,447.40	94.5
Cattle	1.80	13,678.0	89.83
Carabao	-1.81	9,892.0	156.30
Hog	4.6	71,805.0	59.29
Goat	-0.29	1,636.0	0.64

Source: PSA 2018



Production Support Services

Service along this line are designed to make available basic inputs to production like genetic materials in the form of breeder stocks and semen straw for genetic improvement; start up stocks for livelihood projects; drugs and biologics and technical services like diagnosis and treatment for the prevention and control of animal disease.

The Breeder Loan Project

The breeder loan project is designed to improve genetic composition of breeder stocks in the region. Relative to this the Department of Agriculture Regional Field Office no 02 maintains four nucleus farms that are tasked to produce quality breeder stocks that would contribute to increased production.

The region maintains four (4) livestock nucleus farms for the production of quality breeders.

Nueva Vizcaya Experiment Station in Villaros, Bagabag, Nueva Vizcaya is tagged as the nucleus farm for dairy goats where one can obtain dairy goat breeds namely anglo nubian, saanen and French alpine. The station was able to produce 75 heads of anglo Nubian five (5) heads of saanen and 8 heads of French alpine for the year 2018. Qualified breeder loan applicants were able to obtain 40 heads of anglo Nubian, one (1) head Saanen and one (1) head French Alpine from the station.



Quirino Experiment Station in Dunlo, Aglipay, Quirino produces cattle quality breeders of brahman breed. Production and distribution of quality brahman cattle breeders by the station is recorded at ten (10) and seven (7) heads respectively.

Isabela Experiment Station at Upi, Gamu, Isabela is the identified nucleus farm for sheep and has produced 118 heads of quality breeder sheep of the st croix, Katahdin, white dorper and black dorper breeds. A total of 42 heads of quality breeders for these breeds were availed from the station by qualified breeder

loan applicants.

Southern Cagayan Research Center-Cagayan Breeding Station at Maguirig, Solana, Cagayan produced 35 heads of Boer and 22 heads of Kalajari Red distributing 14 and 8 heads respectively.



Breeder animals are provided to interested applicants through the bull/buck/ram loan package, module loan package and multiplier loan package. Recipients provided with the various loan packages have been accounted as follows:

LOAN PACKAGE	NO. OF STOCKS RELEASED	NO. OF RECIPIENTS
Bull Loan	4	4
Heifer Loan	3	3
Buck Loan	33	33
Ram Loan	6	6
Goat module	9	3
Sheep Module	42	14
Goat Multiplier	23	2
Sheep Multiplier	42	6
Total	152	71

An evaluation and release process is in place in the implementation of the breeder loan program which is in collaboration with the Local Government Units.

The Unified Artificial Insemination Project (UNAIP)

Cattles and goats are the focus commodities of the Department of Agriculture Regional Field Office No. 02 for this project. In like manner as the breeder loan project, it is designed to improve genetic composition of breeder stocks in the region. For calendar year 2018 a total of 5,009 and 480 heads of cattle and goats respectively were inseminated and a resultant calf drop of 1,395 and kid drop of 195 have been obtained.



The Sustainable Livestock Livelihood Project

This is a project designed for backyard or small scale livestock and poultry farming. For 2018 it has focused plainly in the provision of stocks mainly cattle, swine and poultry. It has distributed a total of 100 heads of cattle with 100 LGU recipients; 450 heads of native swine with 12 LGU, 3 State Colleges and Universities and 2 organized group recipients; and 200 heads of native chicken to an organized group. The remaining 1,910 heads of native chicken will be distributed later as soon as the problem on supply of stocks due to disease outbreaks in the source area is addressed.

The Animal Disease Management Project

Animal disease prevention and control is a regular intervention of the National Livestock Program in collaboration with the Local Government Units. Relative to this the priority disease concerns are foot and mouth disease (FMD), avian influenza (AI), anthrax, hemorrhagic septiemia, fasciola, african swine fever and rabies.

An FMD and AI free status has been consistently maintained by the existing Regional Task Forces for FMD and AI. Intensified disease monitoring and surveillance activities which include blood and cloacal swab sample collection and analysis are done in aide of reported cases and suspected areas for potential entry and spread of the priority diseases. These activities are coupled with massive information campaign among collaborating Local Government Units and Livestock Raisers Association.

Supplemental to the aforementioned activities is the distribution and administration of drugs and biologics with the Local Government Units serving as conduits. A total of 217, 478 doses of drugs and biologics have been provided to this effect.



Forage and Pasture Development Project

With good nutrition as a vital aspect in successful production, forage and pasture seeds and plant material distribution is an integral part of the production support services. This project is designed for ruminants specifically large (cattle and carabao) and small (goat and sheep). Through this project seeds and plant materials are provided to large and small ruminant raisers free of charge. A total of 135,975 pcs of planting materials for recommended forages which are deemed source of nutritious roughage have been distributed for the benefit of 294 recipients with plans to establish improved pasture as source of forage for their stocks free of charge. Interested raisers are however responsible for gathering the planting materials in the field in the various nucleus farms.

Agricultural and Fishery Machineries, Equipment and Facilities Support Services

The important elements to successful production and enterprise development that are not provided under production support are provided through the AFMEF support services. These include as indicated machineries, equipments and facilities which require high investment cost. This service is provided to organized groups, Local Government Units, State Colleges and Universities and institutions. For 2018 machineries namely 16 forage choppers and one (1) forage chopper/harvester were provided to two (2) organized group, one (1) State College and University and 15 institutions, respectively.



ORGANIC AGRICULTURE PROGRAM

The DA-RFO 02 envisioned to be a premier organic agriculture region in the country sustaining market supply of “certified” organically grown/prepared food, feeds and other agricultural input products.

To achieve this vision DA RFO 02 targeted to convert 27,203 hectares of agricultural land area to be devoted in organic agriculture in 2023. As of now, the DA RFO 02 attained 18,812.59 hectares or 69% of the total target.

Production Support Services

Assorted Organic Open Pollinated Varieties (OPV)

Vegetables

This project covers the development of seed system for organic vegetables in the Five (5) provinces in Region 02. The stations are producers of organic inputs such as legumes seeds, root crops and OPV vegetable seeds. A total of 184,408 kilograms of assorted OPV vegetable seeds were distributed with 1,667 farmer beneficiaries.

Organic Upland Rice

Nueva Vizcaya Experiment Station (DA-NVES) certified as “Organic upland rice seed producer” by OCCP-ICSI produced total of 5,222 kilograms of upland rice seeds and distributed with 265 farmer-beneficiaries as of December 2018.

Biocontrol Agents

There are 3,030,000 pieces earwig produced and distributed covering an area of 303 hectares with 160 farmer-beneficiaries and 75,700 pieces of trichocards covering an area of 757 hectares with 161 farmers-beneficiaries.

Biodewormer

Biological agents like fungi reduce our dependence on drugs and the development of drug resistance. *Arthrobotrys drechsleri* and *dactylella bembicoides* are species of nematophagous fungi found in 38% of the fecal and soil samples screened for larval trapping. *Arthrobotrys drechsleri* produced spores at 47.3 % is faster than the latter at 2 weeks’ incubation in rice medium. Also, it was able to decrease development of infective larvae in pasture by 72.66% when given as drench consisting of 2.7×10^6 spores per milliliter.

Organic Corn Production and Distribution

On-station seed production of OPV Corn seeds for distribution to farmers practicing organic farming at the provinces of Cagayan, Quirino, Batanes and Nueva Vizcaya was implemented. The Nueva Vizcaya Experiment Station (DA-NVES) was certified as “Organic OPV Corn seed producer” by the OCCP-ICSI. A total of 5,699 kilograms of OPV corn seeds was distributed with 950 farmer-beneficiaries. It aims to produce and promote organic OPV white corn seeds by continuous natural seed selection and seed purification; and the institutionalization of the Organic OPV Corn Seed System in Region 02.

Market Development Services

Market Related Events Funded/Assisted (Local /International Fairs and Exhibits)

The DA-RFO 02 thru the Agribusiness and Marketing Assistance Division (AMAD) conducted/participated in one (1) International and three (3) local trade fairs with 12 farmer groups as exhibitors. Targeted exhibitors exceeded due to their growing interest to promote their organic products. A seminar in enterprise development for producers (product packaging and labeling of organic products) was also conducted during the fairs to help the exhibitors in enhancing their product package and label.

The 3rd Regional Organic Agriculture Congress was conducted last June 20-21, 2018 at Highlander Hotel, Solano, Nueva Vizcaya. The activity serves as an avenue for organic practitioners in the region to share new trends and technology updates in organic agriculture. Targeted participants for the congress exceeded due to the growing awareness and interest of organic practitioners to attend and listen to the lectures on technology updates, health and wellness and their opportunity to buy organic products displayed at the exhibit area.

As an output, the participants of the congress resolved to request the Philippine Crop Insurance Corporation for a “Special Insurance Program” covering Organic Agriculture Practitioners and Land Bank of the Philippines for a “Guaranteed Easy Access Loan for Organic Agriculture Practitioners”. The resolutions have been forwarded to the National Organic Agriculture Program for appropriate action of the National Organic Agriculture Board (NOAB).



Extension Support, Education and Training Services

Participation to 15th National Organic Agriculture Congress

The Organic Agriculture practitioners and enthusiasts participated in the 15th National Organic Agriculture Congress last November 13-15, 2018 at Cebu City. The highlight of the activity was the awarding of Organic Agriculture Achievers Award wherein the Department of Agriculture Regional Field Office No. 02 got the National Award for the Outstanding Farming Family Category in the name of Mr. Ignacio T. Pascua Jr. and family of Culung, Tuao, Cagayan.



Regional Organic Agriculture Achievers' Awards

Search for Outstanding Organic Agriculture Stakeholders was conducted to recognize their contribution and their unwavering support in the implementation of RA 10068 and achievement of the National Organic Agriculture Program envisioned goals.

Out of the four (4) Regional Awardees, two (2) were shortlisted as finalists which include Engr. Claudio P. Gonzaga under the Individual Small Farmer Category and Mr. Ignacio T. Pascua, Jr. & Family under the Outstanding Organic Agriculture Farming Family Category. After evaluation by the National Organic Agriculture Evaluation Team, Mr. Ignacio T. Pascua Jr. and family of Culung, Tuao, Cagayan was declared National Awardee under the Outstanding Farming Family Category during the 2018 Search for National Organic Agriculture Achievers Award. The family won a cash prize of Three Hundred Thousand



Irrigation Network Services

Solar Pump

Organic farming aims at optimizing the use of on-farm resources and the sustainable use of natural resources. Active water retention, water harvesting and storing of water are important practices especially for organic farmers. A large quantity of energy is available when it is actually needed. Light of renewable energy is one of the ways that is used for irrigation nowadays for sustaining the good production and increase farmers' productivity especially on organic farming.

This year, five (5) units of Solar Pumps one (1) installed in every province of the region, is expected to contribute to the attainment of the NOAP target of 5% of the total agricultural land area to be devoted to organic farming. Moreover, the project will promote renewable energy as source of water in organic farming.



Agricultural and Fishery Machineries, Equipment and Facilities Support Services

Provision of Agricultural Equipment and Facilities

Agricultural facilities as well as equipment were distributed to organic farmers to improve productivity and profitability of the farm. This year, the targeted ten (10) units of shredder machine with tea brewer and ten (10) units siever machine and five (5) units greenhouse were distributed to organic practitioners region wide. The equipments shall facilitate the production of quality organic fertilizer and upscale the production of planting materials under greenhouse condition.



OTHER SUPPORT SERVICES



MARKETING SUPPORT SERVICES

Market Development Promotion

Market Linkage/ Matching

Facilitated conduct of Market Linkage/ Matching between and among nine(9) producers/ processors and ten (10) buyers involving nine (9) commodities. This resulted to a total of 131.161 MT and P5, 378,254.0 of products sold in terms of volume and value, respectively.



Agri-Aqua Fair

Agri-aqua fairs, entrepreneurial trainings, business, planning meetings/ workshop were conducted participated by

- 24 exhibitors
- 23 operational FTP's
- 9 processing centers/recipients
- 35 agri-processors



Agribusiness & Development Promotion



Conducted/participated to inbound/outbound promotion, PanagDAdapun launching, purchasing and labeling of agri-products, food exposition that generated P462,443.45 to 71,200 sales generated by invited exhibitors.



Agribusiness Industry Support

- Conducted farming on Cloud Manufacturing Practices (CEMP), Basic Exporting, product purchase and labeling, entrepreneurship participated by 165 food agri-processors and farmers/associations/LGU's.
- Conducted Price Monitoring Task Force Meeting/Orientation Expository Tour for Sta. Ana APTC Management, Benchmarking and IAVTC Management.
- Participated to International Food Expository and Agri-link/Foodlink/Aqualink.

RESEARCH AND DEVELOPMENT SERVICES

Commercialization of Information/ Products Technology generated from Research and Development

- Forty-Two (42) on-going and completed R&D projects reviewed (CPAR and TechCom Projects) for the improvement of cropping system to address climate change
- During the conduct of Technology & Investment Forum, 13 matured technologies presented:
 1. Rice Wash alternative culture media for mushroom pure culture production
 - Palay and cracked corn as alternative substrate for sorghum
 - Rice hull, mungbean hull as alternative substrate for mushroom production
 - Mushroom-based products (Patty & Seasoning)
 - Protein-rich OPV corn varieties
 - Corn/Cassava Innovative Products
 - Mangbean Brand Products
 - Gulaydrated
 - Adlay Milling Machine
 - Peanut Products
 - Soybean Food Products
 - Exotic Fruit Trees Varieties
 - Biodewormer
 2. Awarded 25 Certificates of Technology Transfer to Investors:
 - 6 Distributors
 - 5 Manufacturers
 - 1 Processors





➤ During the conduct of Technology & Investment Forum, a turned-over of Corn Book titled “Cagayan Valley’s Amazing Corn Products” to LGUs, ATI, DA-BAR, SUCs, NGOs during the “PanagDAdapun cum 1st Cagayan Valley Makan Festival” in DA-CVRC Annex, Baligatan, City of Ilagan Isabela on May 16-17, 2018, served as reference of agri-entrepreneurs resulting to savings in manpower (piecemeal) requirement.

➤ Participation to the National Technology Forum on August 29-Sept 3, 2018 @ SM Mega Trade Hall B, Mandaluyong City showcased innovative products (disaster/relief foods and nutrition foods) on Mang Bean, Mangi, Gourmix, Mushroom, MuttonIES, Rice Coffee, Rice-Corn Blend where DA-RFO 02 won the 2nd Best Innovative Product on Mungbean Soup and Special Award for Booth. These strengthened promotion as manifested by investors who signified interest on the products developed by DA-RFO 02 especially the Rice-Corn Mix. Best Innovative product and 1M for Special Award for techcom.



The received 4M Research grant for

➤ On participation to National Research Symposium, three (3) AFMA papers and 2 finalists were garnered by DA-RFO 02 and both papers on Edible Machine: Pilot Testing, Promotion, and Commercialization of Adlay (*Coix lacryma-jobi* L.) Milling Machine to Major Production Areas in the Philippines and Enhancing Soybean Productivity and Availability in Region 02 Won the Silver Awards. A project grant of 1 million for each paper was awarded to commercialize the product. More resource generation because of consistent good identity in producing quality R&D output/outcome.

During the participation to PCAARRD Symposium, DA-CVRC won the Best Development Paper Award titled “Enhancing Soybean Productivity and Availability in Region 02.”

For the participation to CVAARRD Symposium, the paper on “Technology Demonstration of Mechanized Rice Farming in the Lowland Irrigated Areas of Region 02” won the Best Development Paper and DA-CVRC won also the 3rd Place Poster Category on the project titled “Collection and Characterization of Philippine Native and Traditional Corn Varieties in Region 02”

In the participation to National Livestock Review, DA-RFO 02 Staff was awarded as the “Best Presenter” on the paper “Anthrax Disease Mapping in Region 02”.

FUND GENERATION

Submission of R&D fundable project proposals, Submitted and endorsed 30 project proposals that subjects to additional projects to be implemented addressing regional/location specific concerns.

On the submission of Institutional Development Grant (IDG) Proposals to external funding, five (5) approved and funded project proposals amounting to Php14,368,916.00. Submitted and endorsed five (5) IDG project proposals amounting to Php 31, 400,000, additional source of budget (DA-BAR), enhanced/improved R&D related services.

STATIONS	No. of R&D Projects			Remarks
	2017	2018	2019*	
CVRC	31	31	29	2 new proposals on citrus
SCRC	16	33	12	
QES	7	9	5	
NVES	4	5	2	
IES	2	5	-	
BES	6	4	3	
NCES	5	8	4	
CBS	5	5	2	
RCPC/Plant Health Clinic	3	5	7	

Further, the book entitled "Taking Strides Towards Successful Farming: A Compendium of Matured Technologies" was turned-over to Local Government Units (LGUs), Agricultural Training Institute (ATI), DA-BAR, State Colleges/Universities (SUCs), & Non-Government Organizations (NGOs) during the said event. This book served as their reference in agri-enterprising. The Research Division also packaged Quarterly R&D Digest featuring technologies generated from Rice R&D projects.

To further promote products from R&D, the Research Division & the Research Centers/Experiment Stations participated in NTF spearheaded by DA-BAR. This activity was an avenue to showcase innovative products in rice such as Mushroom, Rice Coffee, Rice-Corn Blend, which were products from research. The DA RFO 02 won Special Award for Booth gaining P1M research grant. This activity strengthened promotion as manifested by investors who signified interest on the products developed by DA-RFO 02 especially the Rice-Corn Mix.

REGULATORY SUPPORT SERVICES

Intensification of enforcement compliance to Regulatory Activities

1. Gradual increase of applicants on Feed Retailers and Distributors; and accomplished more than the target; 12 compliant Feed Manufacturers conform to BAI standards & produce quality feeds thereby the increased in their production.
2. Endorsed a total of 265 applicants for registration to BAI and issued with registration/licenses:
 - 40 applicants for Feed retailers
 - 95 applicants for Livestock Handlers
 - 130 applicants for Transport Carriers
3. Enforced compliance of the business sector on RA 1556.
4. Trained a total of 1,593 farmers, as follows:
 - 240 GAP Fruits and Vegetables farmers.
 - 904 GAP Rice farmers
 - 449 GAP Corn farmers
5. Provision of technical assistance to the farmers in their compliance to the GAP standards for certification. Endorsed 94 Applications for GAP Certification to BPI.
6. Conducted of Field Inspection and Monitoring on issued GAP Certificates to applicants, as follows:
 - 24 Farmers
 - 3 DA-Stations
 - These activities increased the level of awareness of the farmers on Food Safety, Produce Quality Products, Environmental Management and Workers Health Safety and Welfare.
7. Intensified enforcement of and compliance to regulatory controls.
 - Collected 1,500 samples and endorsed to the ILD for feed sampling and analysis
 - Collected 26 samples and endorsed to ILD for aflatoxin analysis
 - Trained 200 Feeds/ VDAP Establishments on RA 10611.0
8. Intensified the promotion and adoption of Food Safety Standards
 - Trained a total of 265 participants involved in Animal production.
 - Endorsed 2 renewal of AWA Registration and 4 AWA new registration.
 - Inspected 1 farm for GAHP Certification.
 - One-unit Biogas Digester was requested at BAI to be installed at DA-QES this 2018.



FARM-TO-MARKET ROADS PROJECT

Farm-to-Market Roads/ Bridges

The Department of Agriculture released the Five Hundred Twenty- Two Million Pesos (₱522,000,000.00) for the Farm-to-Market Road/Bridges Development Program intended for the improvement/rehabilitation of priority Farm to Market Road projects identified by Farmer's Association and Local Government Units (LGUs) validated by DA- RAED staff following the Philippine Agricultural Engineering Standards (PAES).

The Department of Agriculture-Regional Field Office No. 2 is responsible in the Review of plans, design and cost estimates of proposed Farm to Market Road (FTMR) and Farm Bridges, Site Validation, Road Tracking and GeoTagging and supervision/ monitoring of projects implementation.

A total of 69.764 kilometres or 94 projects/sites are targeted regionwide will benefit more or less 60,103 farmer beneficiaries.

The 94 projects/sites distributed to the different Provinces, 5 projects from Batanes, 20 from Cagayan, 37 from Isabela, 12 from Nueva Vizcaya and 20 from Quirino. Out of the project total target, a total of 69.005 km. or 98.91% has been constructed/completed. Various issues and constraints were experienced during the implementation of the projects and to name a few, these were:

1. Inadequate construction materials to be sourced out in the locality (Batanes)
2. Un-predicted weather condition that cause project site not accessible/workable.
3. Presence of Right-of-Way problems (ROW).



Special Project: Foreign Assisted PHILIPPINE RURAL DEVELOPMENT PROJECT (PRDP)

Stronger Ties with the Local Government Units (LGUs)

**5 PLGUs and
1 City**

**signed MOA for PRDP
Implementation**

Under the Philippines Rural Development Projects (PRDP) for CY 2018 five (5) PLGUs, one (1) city in the region have forged ties with DA through Memorandum of Agreement (MOA) between Local Chief Executives and the Department of Agriculture which resulted to huge portfolio of proposals seeking funding assistance from PRDP.



Increased Rural Investments

➤ **6 Value Chain Analysis (VCAs) approved for Region 02**

All Provinces and 1 City with Commodity Investment Plans (CIP)

From 24 Approved VCAs last 6th mission, the cluster has now 26 approved VCAs since it started in 2014. All provinces obtained their Commodity Investment Plan. The P/CCIP contains all the possible interventions in the province that can be funded by the PRDP and/or other agencies.

➤ **4 Provinces and 1 City with approved Rural Infrastructure Development Subprojects (IBUILD)**

➤ **4 Provinces and 1 City with approved Enterprise Development Subprojects (IREAP)**

All the provinces in the Cagayan Valley except Batanes already have approved I-Build and I-Reap subprojects. Batanes has a proposed Tramline IBUILD SP and it has 2 small enterprises and 1 micro enterprise proposed IREAP SPs namely; Garlic Seed Production and Marketing Enterprise, Sweet Potato "WAKAY" Production and Marketing Enterprise, and Beef Cattle Production and Marketing Enterprise.

Increase Completed Sub-Projects

➤ **14 Infrastructures 39 Enterprises**

The cluster has 14 completed infrastructures that benefit the individual beneficiaries and 39 completed enterprises that benefit the individual beneficiaries.

P 482,321,334.37 Total cost of completed I-BUILD SPs

ISABELA

7 completed infrastructure

23 completed enterprises

NUEVA VIZCAYA

1 completed infrastructure

P 53,491,862.00 Total cost of completed I-REAP SPs

CAGAYAN

1 completed infrastructure

QUIRINO

6 completed infrastructure

4 completed enterprises



Breakdown of the completed **IBUILD & IREAP** subprojects in **Cagayan Valley**

The **Cagayan Valley Region** has **14** completed infrastructures and **39** enterprises.



IPLAN Component

Six (6) Approved Regional Value Chain Analysis (VCAs)

COMMODITY	DATE APPROVED	SCOPE
Upland Rice	Sept. 21, 2016	Cagayan, Isabela, Quirino, Nueva Vizcaya
Dairy	March 6, 2017	Cagayan, Isabela, Quirino, Nueva Vizcaya
Mandarin	July 14, 2017	Nueva Vizcaya, Cagayan, Quirino, Isabela
Pineapple	July 3, 2018	Cagayan, Nueva Vizcaya, Isabela
Coffee	July 5, 2018	Nueva Vizcaya, Cagayan, Isabela, Quirino
Banana	November 16, 2018	Isabela, Cagayan, Quirino, Nueva Vizcaya

Out of 10 Regional VCAs, there are 6 VCAs approved and 4 under compliance on the comments and recommendations from NPCO.

Four (4) Regional VCAs-For Compliance

COMMODITY	SCOPE
Organic Garlic	Batanes
Seaweeds (Gracilaria spp.)	Cagayan, Isabela
White corn	Cagayan, Isabela, Quirino, Nueva Vizcaya
Rice	Cagayan, Isabela, Quirino, Nueva Vizcaya, Batanes

PROVINCIAL/CITY COMMODITY INVESTMENT PLANS (P/CCIPs) SUMMARY By STATUS

PROVINCE/ CITY	APPROVED COMMODITIES BY PDC/SP	ON-GOING UPDATING	PRIORITY COMMODITIES TO BE INCLUDED IN THE P/CCIPs
Batanes	Garlic, Sweet Potato, Beef Cattle	-	Marine Fisheries, Bulb Onion
Cagayan	Dairy, Mango	Peanut, A/P Rice, Beef Cattle	Corn, Cacao, Pineapple, Banana
Isabela	Dairy, Mungbean, Tilapia, A/P Rice	Beef Cattle, Pineapple, Mango	Whitcorn, Seaweeds, Coffee
Quirino	Coffee, Banana	-	A/P Rice, Dairy, Beef Cattle, Ube
Nueva Vizcaya	Mandarin, Onion, Tomato, Coffee, Pineapple	-	Rice, Corn
Santiago City	Peanut, Mungbean, Beef Cattle, Mango	Tilapia, Dairy	Muscovado

Red Font: new commodities approved by PDC & SP (December 7 & 27, 2018, respectively)

Violet Font: these are commodities requested by various municipalities to include in the PCIP of Cagayan



PRODUCT FORMS OF RICE...

- Rice-based convenience foods: puffed rice, rice crackers, canned rice
- kakanin or native delicacies: biko, suman, patupat, puto, kutsinta, binallay, pawa, bibingka, tupig, baduya, tinudok, butchi, palitaw, tinubong, inangit, bilo-bilo, roasted rice coffee, pinoy gourmix, rice-corn combo, pinipig
- ◆ Rice hull
- ◆ Carbonized rice hull / ash

IBUILD Component

APPROVED IBUILD SUB-PROJECTS

Profile of Approved I-BUILD SPs

4 Provinces with approved subprojects

39 Infrastructure subprojects



1.98 billion pesos



127.96 kilometers of FMR

495 hectares of CIS

8,125 square meters of other rural infrastructure



Four (4) provinces has approved IBUILD SPs comprising of 40 infrastructure subprojects amounting to 2.06 Billion Pesos covering 127.96 kilometers of FMRs, 606 hectares of Communal Irrigation Systems, and 7,253.08 square meters of other rural infrastructures household beneficiaries or individual beneficiaries will benefit from these PRDP approved SPs.

COMPLETED I-BUILD SUB-PROJECTS

Profile of completed I-BUILD SPs

3 Provinces with completed subprojects

14 Completed I-BUILD subprojects



482 million pesos

7 FMR sub-projects

46.4 kilometers of FMR

5 infrastructures sub-projects

882 square meters of completed other rural infrastructure

30 hectares of CIS



Three provinces has completed subprojects or a total of 14 I-BUILD subprojects amounting to 482 million pesos consisting of 7 Farm To Market Roads with a total of 46.4 kilometers of constructed pavement, 5 completed other infrastructures subprojects measuring 882 square meters that will benefit beneficiaries.

IREAP Component

Profile of the RPCO 2 IREAP Portfolio

- 5 Provinces with proposed enterprise subprojects
- 58 enterprise subprojects (39 micro, 16 small, 3 medium)
- 222.75 million pesos (net of PG equity)

Two (2) newly conducted Enterprise Assessment cum Business process Review within the Region

The RCPO2 has also conducted 10 Enterprise Assessment cum Business Process Review within the cluster. The objectives of this activity are

- to assess the current status of the enterprise operation in the aspects of management, marketing, technical, financial and sustainability
- to determine strong and weak points of the enterprise management
- to identify emerging positive results of the operation
- to prepare an action plan based on the result of the assessment





Catalytic Approaches and **Innovations**





Formulation of **CAGAYAN VALLEY AGRICULTURE AND FISHERIES MODERNIZATION PLAN (CVAFMP) 2018-2023**

The RAFMP 2018 – 2023 contributes to the national strategy in ensuring the sustainability of our government’s efforts to improve the productivity of the Agriculture, Forestry, and Fisheries (AFF) and to continuously build the capacity AFF stakeholders. It was formulated to provide the strategic directions that the sector will achieve within the next six years – it serves as basis for shaping the priority programs of the government as well as private investments to optimize use of limited resources and to flesh out the agriculture and fisheries chapter of the Philippine Development Plan 2018-2023.

As embodied in the Cagayan Valley’s AFMP, it is envisioned that the region will become a sustainable agriculture and fisheries sector propelled by commitment and dedicated professionals; progressive and globally competitive resilient farmers and fisher folks supported by efficient green agribusiness value chains.



Municipal Food Security Plan: DA's COMMITMENT TO A BOUNTIFUL CAGAYAN VALLEY

Northern Luzon Mayors and their representatives, formally presented their food security plan to Department of Agriculture Secretary Emmanuel Piñol Philippine International Convention Center (PICC), Pasay City with a theme: “Mamamayan Ko, Pakakainin Ko”. As an offshoot of this activity, for the first time in recent years, the Department of Agriculture - Regional Field Office No. 02 (DA-RFO 02) held a Year-End Conference of the Local Government Units (LGUs), Regional Management Council (RMC) and other stakeholders at Zen Hotel, Santiago City for a food-secured Philippines. The activity featured the presentation of Cagayan Valley agricultural situationer, turn-over of City/Municipal Food Security Plans, signing of pledge of commitment to food security and awarding of Bottom-Up Budgeting (BUB) projects. For a food-secured Philippines, we must maintain our good performance especially the sector’s contribution in the national economy.





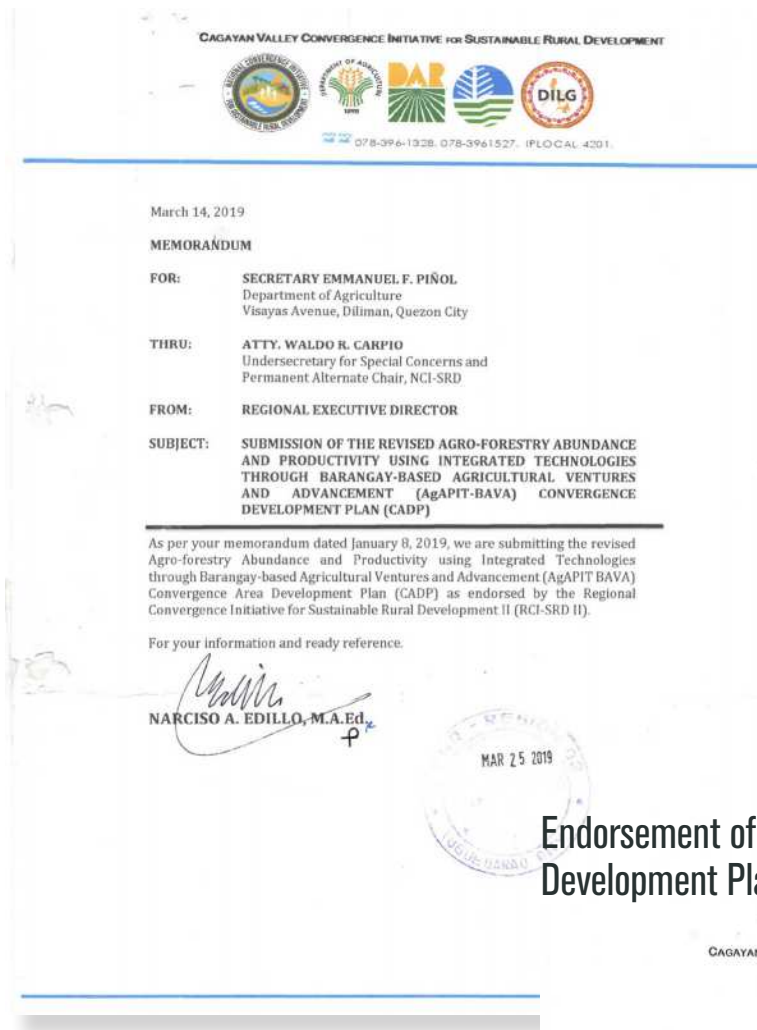
REGION II CONVERGENCE INITIATIVE FOR SUSTAINABLE RURAL DEVELOPMENT

AGRO-FORESTRY ABUNDANCE & PRODUCTIVITY USING INTEGRATED TECHNOLOGIES THRU BARANGAY-BASED AGRICULTURAL VENTURES AND ADVANCEMENT (AGAPIT-BAVA)

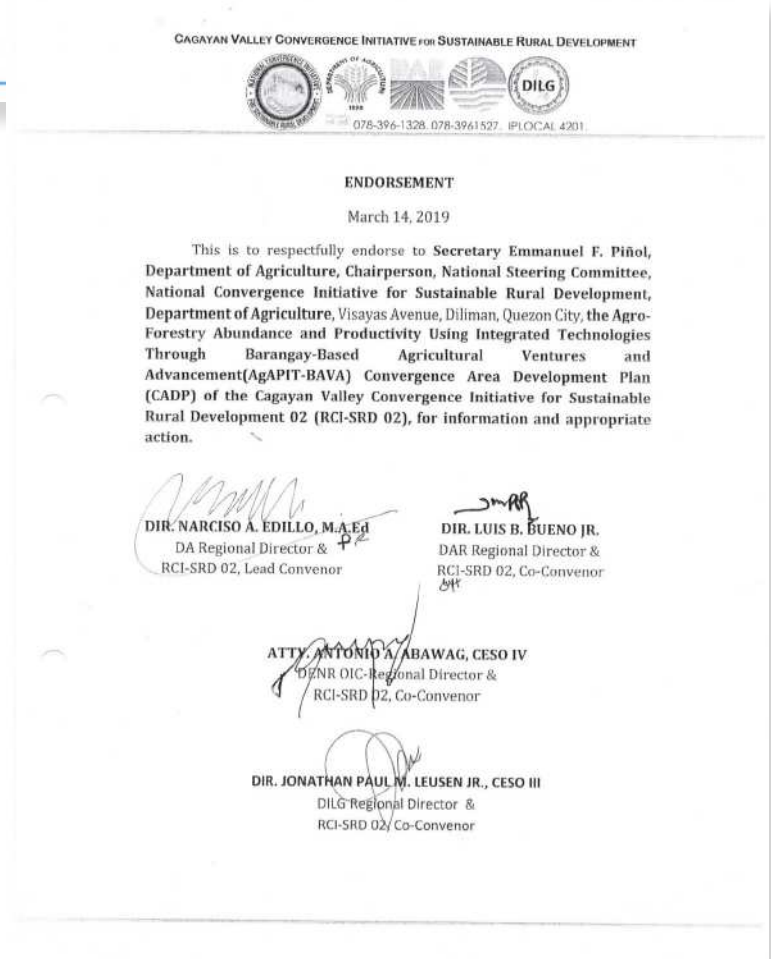
CONVERGENCE AREA DEVELOPMENT PLAN (CADP) 2018-2023




Endorsement of the CADD to the National Initiative



Endorsement of the AgAPIT-BAVA Convergence Area Development Plan (CADD)



Memorandum of Agreement



MEMORANDUM OF AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This Memorandum of Agreement is entered into by and among:

The **DEPARTMENT OF AGRICULTURE**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at San Gabriel, Tuguegarao City, represented herein by **Regional Executive Director LORENZO M. CARANGULIAN**, hereinafter referred to as "**DA RFO 02**";

The **DEPARTMENT OF AGRARIAN REFORM**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at Regional Government Center, Carig Sur, Tuguegarao City, represented herein by **Regional Director HOMER P. TOBIAS**, hereinafter referred to as "**DAR RO 02**";

The **DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at Regional Government Center, Carig Sur, Tuguegarao City, represented herein by **Regional Director GIL A. AROMIN**, hereinafter referred to as "**DENR RO 02**";

The **DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at Regional Government Center, Carig Sur, Tuguegarao City, represented herein by **Regional Director JONATHAN PAUL M. LEUSEN, JR.**, hereinafter referred to as "**DILG RO 02**";


The **DEPARTMENT OF TOURISM**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at Regional Government Center, Carig Sur, Tuguegarao City, represented herein by **Regional Director VIRGILIO M. MAGUIGAD**, hereinafter referred to as "**DOT RO 02**";


The **DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at Regional Government Center, Carig Sur, Tuguegarao City, represented herein by **Regional Director MELANIO C. BRIOSSOS**, hereinafter referred to as "**DPWH RO 02**";

The **DEPARTMENT OF TRADE AND INDUSTRY**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at Regional Government Center, Carig Sur, Tuguegarao City, represented herein by **Regional Director RUBEN B. DICIANO**, hereinafter referred to as "**DTI RO 02**";

The **NATIONAL IRRIGATION ADMINISTRATION**, a national government agency duly organized and existing under the laws of the Republic of the Philippines with regional office address at Minante 1, Cauayan City, Isabela, represented herein by **Regional Director CONSTANCIO G. BANA-AY JR.**, hereinafter referred to as "**NIA RO 02**";

The **LOCAL GOVERNMENT UNIT OF ABULUG**, duly organized and existing under the laws of the Republic of the Philippines with office address at Abulug, Cagayan represented herein by **Mayor JESUS EMMANUEL P. VARGAS**, hereinafter referred to as "**MLGU ABULUG**";





The **LOCAL GOVERNMENT UNIT OF PAMPLONA**, duly organized and existing under the laws of the Republic of the Philippines with office address at Pamplona, Cagayan represented herein by **Mayor ARNIE ANGELICA P. SAMPAGA**, hereinafter referred to as "**MLGU PAMPLONA**";

The **LOCAL GOVERNMENT UNIT OF CLAVERIA**, duly organized and existing under the laws of the Republic of the Philippines with office address at Claveria, Cagayan represented herein by **Mayor CELIA T. LAVUS**, hereinafter referred to as "**MLGU CLAVERIA**";

The **LOCAL GOVERNMENT UNIT OF STA. PRAXEDES**, duly organized and existing under the laws of the Republic of the Philippines with office address at Sta. Praxedes, Cagayan represented herein by **Mayor DANILO A. AGUINALDO**, hereinafter referred to as "**MLGU STA. PRAXEDES**"; and

The **CAGAYAN STATE UNIVERSITY SANCHEZ MIRA CAMPUS**, duly established academe and existing under the laws of the Republic of the Philippines with office address at Sanchez Mira, Cagayan represented herein by **University President URDUJAH A. TEJADA**, hereinafter referred to as "**CSU SANCHEZ MIRA**"

WITNESSETH THAT:

WHEREAS, DA, DAR, DENR and DILG pursuant to Joint Administrative Order (JAO) No. 1 series of 2015 have adopted the National Convergence Initiative for Sustainable Rural Development (NCI-SRD) to integrate and strengthen development framework between and among national government, local government agencies and other stakeholders, wherein complementary human, physical and financial resources are efficiently and effectively deployed;

WHEREAS, per the aforementioned JAO, the primacy of the LGUs as the integrating and converging force for sustainable rural development at the local level shall be emphasized;

WHEREAS, complementation of resources and expertise of the concerned agencies and LGUs shall take primordial consideration in the implementation of the convergence initiative;

WHEREAS, Section 4 of the Joint Administrative Order stipulated that strategic rural areas shall be considered as the convergence areas where complementation of efforts and concerted and coordinated interventions from NCI-SRD agencies interplay to achieve optimum results shall be implemented;

WHEREAS, on 6-9 March 2017 the NCI-SRD conducted the Convergence Area Development Plan (CADP) Training Workshop at FL Vargas College, Abulug, Cagayan to identify the necessary interventions for the concerned MLGUs and academe;

WHEREAS, it was agreed during the said workshop that the proposed convergence area within the 2nd Congressional District of Cagayan covering ABULUG, PAMPLONA, CLAVERIA, STA.PRAXEDES and CSU SANCHEZ MIRA shall be collectively known as the **AGRO-FORESTRY ABUNDANCE AND PRODUCTIVITY USING INTEGRATED TECHNOLOGIES THROUGH BARANGAY-BASED AGRICULTURAL VENTURES AND ADVANCEMENT (AgAPIT-BAVA)**;

WHEREAS, on 2-6 May 2017 the AgAPIT Writeshop was conducted in Abulug, Cagayan wherein one of the major projects indicated/identified in said CADP is the creation/development of the Agriculture Eco-Tourism Hub in which the Department of Tourism (DOT) Regional Office II shall play a vital role;

WHEREAS, the DOT has committed to support the convergence initiative projects within the AgAPIT BAVA Convergence Area relative to the mandate of their organization;

WHEREAS, after the series of activities relative to the implementation of the convergence initiative in the 2nd Congressional District of Cagayan, the initial draft of the AgAPIT BAVA CADP was approved by the Regional Convergence Initiative Technical Working Group II (RCI-TWG II) last 7 August 2017 subject to the inclusion of the recommendations by the body;

WHEREAS, the AgAPIT-BAVA CADP was presented and approved by the Alternate National Steering Committee Principals last 13 September 2017 at DAR Central Office;

WHEREAS, the Regional Convergence Initiative Technical Working Group 02 (RCI-TWG 02) conducted its 1st meeting for CY 2018 on 9 February 2018 to discuss the operational plan and budget proposal for AgAPIT-BAVA Convergence Area as well as the signing of this MOA;

WHEREAS, on 23 February 2018 the 2nd meeting of the RCI-TWG 02 was conducted to finalize the commitments of the different line agencies involved in the convergence project in which the DPWH RO 02, DTI RO 02 and NIA RO 02 have committed to support the convergence initiative projects within the AgAPIT BAVA Convergence Area relative to the mandate of their organization;

WHEREAS, one of the components identified in said CADP is Road Networks and Access Roads within the Integrated Agri-Food Park (IAFP) and Rural Transformation Centers (RTCs) of AgAPIT-BAVA to provide access from primary production areas to IAFP in which DPWH RO 02 shall play a vital role;

WHEREAS, the IAFP may establish mutually beneficial economic relations with other entities within the region and/or country, in which the DTI RO 02 through its administrative guidance, shall play a vital role;

WHEREAS, one of the sub-components of the RTCs is the Installation/Construction of Communal Water System, Small Water Impounding Projects (SWIP), Small Farm Reservoir (SFR), in which NIA RO 02 shall play a vital role;

WHEREAS, the DOT RO 02, DPWH RO 02, DTI RO 02 and NIA RO 02 have expressed their desire to be a partner of the National Convergence Initiative adopted by DA, DAR, DENR and DILG pursuant to Joint Administrative Order No. 1 series of 2015 reiterated by the concurrent NCI-SRD National Steering Committee on November 14, 2016 in the implementation of the CADP in AgAPIT-BAVA Convergence Area;

WHEREAS, the DOT RO 02, DPWH RO 02, DTI RO 02 and NIA RO 02 binds themselves to the provisions of the above-stated DA, DAR, DENR and DILG Joint Administrative Order except section 6.2 which pertains to the Implementation Mechanisms and Organizational Structure at the Sub-National Level;

WHEREAS, the MLGUs ABULUG, PAMPLONA, CLAVERIA, STA. PRAXEDES and CSU SANCHEZ MIRA through the initiative of the Cagayan 2nd Congressional District Representative Hon. Baby Alme Vargasa-Alfonso desire to be a partner of the National Convergence Initiative (NCI) adopted by DA, DAR, DENR and DILG pursuant to Joint Administrative Order No. 1 series of 2015, reiterated by the concurrent NCI-SRD National Steering Committee on November 14, 2016;

WHEREAS, MLGUs ABULUG, PAMPLONA, CLAVERIA, STA. PRAXEDES and CSU SANCHEZ MIRA and themselves, respectively, to the provisions of the above-stated DA, DAR, DENR and

DILG Joint Administrative Order except section 6.2 which pertains to the Implementation Mechanisms and Organizational Structure at the Sub-National Level;

NOW THEREFORE, for and in consideration of the above premises, the Parties mutually agree to adhere to the propositions stated herein:

**ARTICLE I
NATURE, OBJECTIVES AND SCOPE**

Section 1. Title. The MOA shall be known as "**NATIONAL CONVERGENCE INITIATIVE FOR SUSTAINABLE RURAL DEVELOPMENT (REGION 02) IN PARTNERSHIP WITH AgAPIT-BAVA STAKEHOLDERS**".

Section 2. Objective. This MOA aims to constitute a partnership between the Convergence Initiative adopted by DA, DAR, DENR, DILG, DPWH, DOT, DTI, NIA and MLGUs ABULUG, PAMPLONA, CLAVERIA, STA. PRAXEDES and CSU SANCHEZ MIRA for the purpose of developing the AgAPIT-BAVA Convergence Area within the 2nd Congressional District of Cagayan in accordance with the policy of the state to pursue sustainable development for poverty reduction, food security, biodiversity conservation and climate change adaptation.

This MOA intends to allow the AgAPIT-BAVA Convergence Area to be a part of the Convergence Initiative duly implemented by the NCI.


Section 3. Scope and Coverage. This MOA provides for the terms and conditions and roles of the parties in the implementation of the convergence initiative covering the municipalities of Abulug, Pamplona, Claveria, Sta. Praxedes and CSU Sanchez Mira through the NCI.

**ARTICLE II
ROLES AND RESPONSIBILITIES OF THE PARTIES**

In addition to the pertinent provisions of the DA-DAR-DENR-DILG Joint Administrative Order No. 1 Series of 2015, the parties hereby agree to perform the following roles and responsibilities:

Section 1. The **DEPARTMENT OF AGRICULTURE REGIONAL FIELD OFFICE NO. 02**, the agency responsible for the promotion of agricultural development by providing policy framework, public investments and support services needed for domestic and export-oriented business enterprises, shall:

- 1.1 Synchronize all RCI-SRD projects and programs being implemented within the AgAPIT-BAVA Convergence Area;
- 1.2 Provide necessary financial and technical support for agricultural related projects as defined in the Convergence Area Development Plan including but not limited to:
 - a. soil analysis and farm management directions;
 - b. development of business and marketing facilities including market stalls towards promoting community-based economic activities;
 - c. development of marine and aquaculture resources geared towards increasing production areas and capacities of LGUs;



d. development and intensification of production of priority crops and livestock among others that are intended to supply the needed raw materials for the IAFP; and

e. conduct of trainings and seminars on planting and management to project farm managers and cultivators/growers;

1.3 Designate a Focal Person to coordinate with the AgAPIT-BAVA stakeholders and implementers for the implementation of the project;

1.4 Assist in the creation of AgAPIT BAVA District Convergence Initiative Technical Working Group;

1.5 Perform regular project monitoring and evaluation of the assigned project activities or as often as necessary; and

1.6 Consolidate reports from the AgAPIT BAVA Stakeholders and regularly submit report to the NCI-SRD National Technical Working Group (NTWG).

Section 2. The DEPARTMENT OF AGRARIAN REFORM REGIONAL OFFICE NO. 02, the agency responsible in the implementation of Comprehensive Agrarian Reform Program, shall:

2.1 Provide necessary assistance related to Agrarian Reform Beneficiary Development and Sustainability Program (ARBDSP), Land Tenure Security Program (LTSP) and Agrarian Justice Delivery Program (AJDP);

2.2 Designate a Focal Person (DARCO, DARRO & DARPO levels) to coordinate with the AgAPIT-BAVA Stakeholders in the implementation of the project;

2.3 Identify/include Agrarian Reform Communities/Areas (ARCs/ARAs) in the strengthening and development of Agrarian Reform Beneficiary Organizations (ARBs) and the Agrarian Reform Beneficiaries (ARBs) for the enhancement of agricultural productivity in the convergence areas;


2.4 Conduct Information, Education and Communication (IEC) initiatives among communities situated within the project site;

2.5 Provide information on the status of lands within the project site that was covered by GARP and specific details of issued CLOA, Emancipation Patents/Titles to farmers;

2.6 Participate actively in the conduct of regular monitoring and evaluation of the project; and

2.7 Submit report of the assigned project activities regularly to the Regional Convergence Initiative Secretariat for consolidation and submission to the NCI-SRD National Technical Working Group (NTWG).

Section 3. The DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES REGIONAL OFFICE NO. 02, is the primary government agency responsible for the conservation, management, development and proper use of the country's environment and natural resources, specifically forests and grazing lands, mineral resources, including those in reservation and watershed areas and lands of the public domain, as well as licensing and regulation of all natural resources as may be provided by law in order to ensure equitable sharing of the benefits derived therefrom for the welfare of the present and future generation of Filipinos, shall:



3.1 Take the lead in the RCI-SRD projects being implemented under the expanded/enhanced National Greening Program (eNGP) and other environmental programs;

3.2 Provide information regarding the status of the land and recommend viable solutions to the existing issues affecting the implementation of the program;

3.3 Continue to develop areas within the convergence area under the eNGP including vulnerable and hazard prone areas important for the application of appropriate interventions/remedial measures but not necessarily planting;

3.4 Assist in the installation of Fishery Protection and Law Enforcement Group (FPLEG);

3.5 Assist in the creation of an inter-LGU Bantay Kalikasan Task Force;

3.6 Spearhead the development of protected and conservation areas;

3.7 Assist in the development and management of areas for Eco-Tourism;

3.8 Provide the necessary technical assistance to ensure the success of the project;

3.9 Designate focal person to coordinate with the AgAPIT-BAVA stakeholders and implementers for the implementation of the project;

3.10 Perform regular project monitoring and evaluation of the assigned project activities or as often as necessary; and

3.11 Submit report of the assigned project activities regularly to the Regional Convergence Initiative Secretariat for consolidation and submission to the NCI-SRD National Technical Working Group (NTWG).

Section 4. The DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT REGIONAL OFFICE NO. 02, an agency responsible in the promotion of peace and order, public safety and strengthening of the capability of Local Government Units, shall:

4.1 Assist in the enhancement/strengthening of Local Development Councils (LDCs);


4.2 Assist in the reactivation/activation and/or operationalization of Local Peace & Order Councils;

4.3 Encourage local governments to:

- a. conduct coaching/mentoring/training programs re: improvement and/or development of local capacities towards increasing their participation to the production and other development efforts; and
- b. create/install/activate all the relevant local special bodies.

4.4 Designate a Focal Person to coordinate with the Regional Convergence Initiative;

4.5 Perform regular monitoring and evaluation of the project activities assigned to the department;



4.6 Submit report of the assigned project activities regularly to the Regional Convergence Initiative Secretariat for consolidation and submission to the NCI-SRD National Technical Working Group; and

4.7 Adhere to the principles of the Convergence Initiative.

Section 5. The DEPARTMENT OF TOURISM REGIONAL OFFICE NO. 02, an agency responsible in the promotion of dynamic tourism services that instill highest standards of professionalism, ethical behavior, moral responsibility and public accountability, shall:

5.1 Assist in the establishment of Agriculture Eco-Tourism Hub;

5.2 Pursue product development initiatives in support of farm tourism development in AgAPIT BAVA convergence area under the law RA No. 10816 also known as the "Farm Tourism Development Act of 2016", AN ACT PROVIDING FOR THE DEVELOPMENT AND PROMOTION OF FARM TOURISM IN THE PHILIPPINES;

5.3 Assist in the Promotion, Information, Education and Communication campaign of the Agriculture Eco-Tourism Hub;

5.4 Endorse/proposed projects to Tourism Infrastructure Enterprise Zone Authority (TIEZA) for funding for the construction of infrastructures of established and emerging tourism sites/destinations;

5.5 Suggest proposals for Tourism Road Infrastructure Program (TRIP) DOT-DPWH Convergence programs;

5.6 Maintain close coordination to the RCI members and concerned agencies for the smooth implementation of the project;

5.7 Designate Focal Person to coordinate with AgAPIT-BAVA stakeholders and implementers for the implementation of the project;


5.8 Participate actively in the conduct of regular monitoring and evaluation of the project;

5.9 Submit report of the assigned project activities regularly to the Regional Convergence Initiative Secretariat 02 for consolidation and submission to the NCI-SRD National Technical Working Group; and

5.10 Adhere to the principles of the Convergence Initiative.

Section 6. The DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS REGIONAL OFFICE NO. 02, an agency responsible for the planning, design, construction and maintenance of infrastructure, especially national highways, flood control and water resources development systems, and other public works in accordance with national development objectives, shall:

6.1 Undertake the implementation of infrastructure projects such as construction and rehabilitation/improvement of farm-to-market roads, bridges and other facilities including infrastructure projects leading to tourism sites within the convergence area, funds of which are released to DPWH as provided in the General Appropriations Act or by way of fund transfer from Local Government Unit (LGU) or other National Government Agency (NGA);



6.2 Assist in the planning and design of infrastructure projects within the convergence area such as construction and rehabilitation/improvement of farm-to-market, bridges and multi-purpose pavements and/or buildings;

6.3 Designate a Focal Person to coordinate with the AgAPIT-BAVA stakeholders for the implementation of infrastructure projects within the convergence area;

6.4 Provide the necessary technical assistance/supervision in the implementation of infrastructure projects within the convergence area;

6.5 Provide the necessary technical assistance in the post-evaluation of infrastructure projects within the convergence area;

6.6 Provide the necessary technical assistance in the conduct of routine maintenance of infrastructure projects within the convergence area; and

6.7 Adhere to the principles of the convergence initiative.

Section 7. The DEPARTMENT OF TRADE AND INDUSTRY REGIONAL OFFICE 02, an agency responsible for realizing the country's goal of globally competitive and innovative industry and services sector that contribute to inclusive growth and employment generation, shall:

7.1 Provide technical assistance in the promotion of priority investment sites within the project area;

7.2 Provide technical assistance in the capability building for MSMEs participating in the convergence project;

7.3 Provide technical assistance in the establishment and development of industry clusters that fall under its regional priorities;

7.4 Provide priority assistances to clients and projects of the AgAPIT-BAVA Convergence Initiative through its Negosyo Centers located in the municipalities covered by the project;


7.5 Designate a Focal Person to coordinate with AgAPIT-BAVA stakeholders and implementers for the smooth implementation of the project;

7.6 Participate actively in the regular meetings and various activities of the convergence project; and

7.7 Submit regular reports of the assigned project to the Regional Convergence Initiative Secretariat for consolidation and submission to the National Convergence Initiative (NTWG).

Section 8. The NATIONAL IRRIGATION ADMINISTRATION REGIONAL OFFICE 02, the agency responsible for the construction, operation and maintenance of irrigation systems consistent with integrated water resource management principles to improve agricultural productivity and increase farmers' income, shall:

8.1 Identify irrigation projects and programs being implemented within the AgAPIT-BAVA Convergence Area;



8.2 Provide technical assistance for irrigation related projects as defined in the Convergence Area Development Plan including but not limited to:

- a. assistance in the feasibility studies of the irrigation projects and programs being implemented within in the AgAPIT-BAVA convergence area;
- b. assistance in the technical detailed engineering for the needed infrastructures for the identified AgAPIT-BAVA convergence sites;
- c. conduct of trainings and seminars on the maintenance and operations of irrigation canals and canal structures;

8.3 Ensures optimum water delivery within the identified AgAPIT-BAVA Convergence Area based on the capacity of the water sources;

8.4 Construct irrigation canals, irrigation structures and irrigation facilities within the identified AgAPIT-BAVA Convergence area;

8.5 Facilitate trainings for the stakeholders involve in the AgAPIT-BAVA Convergence Area for the water resource management principles to improve agricultural productivity and increase income;

8.6 Designate a focal person to coordinate with the AgAPIT-BAVA stakeholders and implementers for the implementation of the project;

8.7 Actively participate in the conduct of regular monitoring and evaluation of the project and submit pertinent reports relative to the implementation of the convergence initiative to the Regional Convergence Initiative Technical Working Group.

Section 9. The ABULUG, PAMPLONA, CLAVERIA and STA. PRADEXES MLGUs shall:

9.1 Establish the Municipal Convergence Initiative;

9.2 Identify necessary interventions and/or propose other feasible projects for the convergence area;

9.3 Assist in the implementation of the identified programs and projects under the RCI AgAPIT BAVA;

9.4 Develop/employ sustainability measures of the existing programs and projects under the RCI AgAPIT BAVA;


9.5 Inform/orient their constituents regarding the Convergence Initiative projects and programs to be implemented within their area of responsibility;

9.6 Maintain close coordination to the RCI members and concerned agencies for the smooth implementation of the project;

9.7 Designate Focal Person to coordinate with DA, DAR, DENR, DILG and DOT for the implementation of the project;

9.8 Spearhead the conduct of regular monitoring and evaluation of the project and submit pertinent reports relative to the implementation of the convergence initiative to the Regional Convergence Initiative Technical Working Group;

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9.9 Submit report of the assigned project activities regularly to the Regional Convergence Initiative Secretariat for consolidation and submission to the NCI-SRD National Technical Working Group (NTWG); and

9.10 Adhere to the principles of the Convergence Initiative.

Section 10. The CAGAYAN STATE UNIVERSITY - SANCHEZ MIRA, a higher education institution in Region 02, mandated to provide Instruction, Research, Extension and Production, shall:

10.1 Spearhead the operations and management of the Integrated Agri-Food Park;

10.2 Implement programs and projects within the RCI framework for sustainability;

10.3 Spearhead and assist in the conduct of trainings and seminars for development and intensification of production, processing and marketing;

10.4 Conduct and assist in the research and development of food and non-food technology;

10.5 Assist in the development and implementation of business and marketing strategies of the rural transformation centers;

10.6 Maintain close coordination to the RCI members and concerned agencies for the smooth implementation of the project;

10.7 Designate focal person to coordinate with AgAPIT BAVA stakeholders and implementers for the implementation of the project;

10.8 Actively participate in the conduct of regular monitoring and evaluation of the project and submit pertinent reports relative to the implementation of the convergence initiative to the Regional Convergence Initiative Technical Working Group;

10.9 Submit report of the assigned project activities regularly to the Regional Convergence Initiative Secretariat for consolidation and submission to the NCI-SRD National Technical Working Group (NTWG); and

10.10 Adhere to the principles of the Convergence Initiative.

**ARTICLE III
AMENDMENTS**

Section 1. This AGREEMENT shall be amended/modified with respect to the mutual consent in writing of the parties.

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**ARTICLE IV
EFFECTIVITY AND TERMINATION**

Section 1. This AGREEMENT shall be valid and take effect upon signing and shall be revoked upon mutual agreement expressed in writing by all the parties hereto.


Further, violations to the terms and conditions stipulated herein, by any party shall terminate its partnership with the Convergence Initiative.

Finally, after the turnover of projects to LGUs, the agreements hereby stipulated shall be terminated. However, all agencies herein shall exercise supervision to ensure sustainability of the convergence projects.


IN WITNESS WHEREOF, the parties have set their hands this 9th day of March, 2018 at DA-RFO 02, San Gabriel, Tuguegarao City, Cagayan.



LORENZO M. CABANGUIAN, DPA
 OIC-Regional Executive Director, DA RFO 02


HOMER P. TOBIAS, CESO III
 Regional Director, DAR RO 02


ATTY. GIL A. AROMIN, CESO IV
 OIC-Regional Director, DENR RO 02



JONATHAN PAUL M. LEUSEN JR., CESO IV
 Regional Director, DILG RO 02


VIRGILIO M. MAGUIGAD, EnP
 Regional Director, DOT RO 02


MELANIO C. BRIOSOS, CESO III
 Regional Director, DPWH RO 02


RUBEN B. DICIANO
 OIC-Regional Director, DTI RO 02


CONSTANCIO C. BANA-AY JR.
 Acting Regional Irrigation Manager, NIA RO 02


URDUJAH A. TEJADA, PhD, CESO II
 University President, CSU

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Adaptation and Mitigation Initiative in Agriculture (AMIA)

AMIA VILLAGE GRAND HARVEST FESTIVAL (1st in the Philippines)

The first ever AMIA Grand Harvest Festival in the Philippines was held in Lucban, Benito Soliven, Isabela. There are 10 existing AMIA villages in the Philippines and this is the first time that the Grand Harvest Festival was conducted. The farming technologies that were demonstrated during the Grand Harvest Festival to help farmers become more resilient are:

- Soil Analysis as basis for fertilizer recommendation plus 20 bags of organic fertilizer per hectare in rice production areas.
- Alternate Wetting and Drying (AWD) w/ observation wells installed to monitor water level in rice production areas.
- Direct Seeding shorten growing period of rice using mechanized Direct Seeder.
- Early harvesting in case of calamity using Combined Rice Harvester.
- Adoption of Hybrid seeds during dry season.
- Dragon Fruit production at embankment of SWIP.
- SWIP-based-tilapia production.
- Mushroom production as alternative livelihood.
- Gulayan sa Bakuran/ Paaralan / (Crop Diversification).
- Facilitation of Crop Insurance (PCIC).

Community-Based Action Research for Climate Resilient Agriculture in Cagayan Valley (AMIA Village)

Project Objectives:

The project's overall objective is to establish and enhance climate-resilient agri-fisheries livelihoods in target climate-risk communities of Region 02 through participatory action research.

Specific Objectives:

1. To assess climate risks and prioritize CRA innovations for target communities towards more climate-resilient agricultural landscapes and/or value chains.
2. To organize and mobilize communities towards establishing action learning platforms for CRA.
3. To facilitate community-level action learning through testing and sharing of CRA technologies, practices and other innovations.
4. To enable agri-fisheries communities in mainstreaming CRA in climate-resilient value chains and food systems.
5. To enhance and sustain agri-fisheries communities' access to integrated CRA services for finance, climate information and institutional support services.

Methodologies and Tools:

1. Participatory Rural Appraisal (PRA)

The following activities were undertaken

1. Creation of the PRA Team
2. Selection of the target area
3. Preliminary visit to target sites/area
4. Preliminary analysis and final site selection
5. Appreciation Course on PRA for the Team
6. Data/information gathering and analysis

Participatory Rural Appraisal (PRA) Tools

1. Transect Walk
 2. Timeline
 3. Trend Analysis
 4. Base & Social Map
 5. Seasonal Calendar
2. Climate Risk Vulnerability Assessment (CRVA Mapping using GIS-based tool)
 3. Vulnerability and Sustainability Assessment (VSA GISbased map)
 4. National Color-Coded Agricultural Guide Map showing the risks & hazards of each barangay in each Municipality



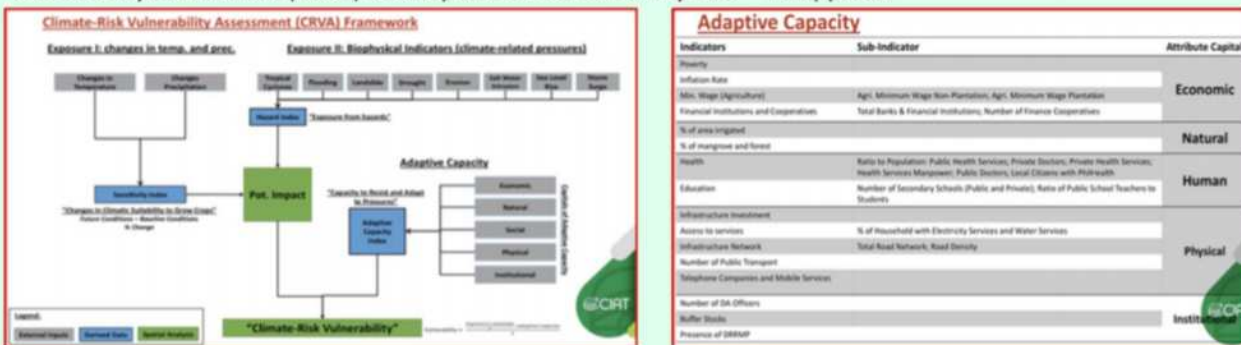
PRA is undertaken to involve the local community specially the residents in identifying the needs and problems of the area.

Community-Based Action Research for Climate Resilient Agriculture in Cagayan Valley

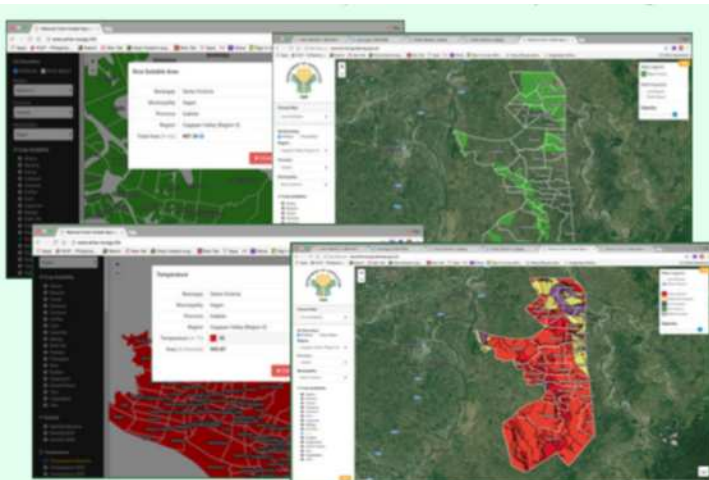
Output No. 1.

Assessed climate risks and prioritized CRA innovations for target communities towards more climate-resilient agricultural landscapes and/or value chains.

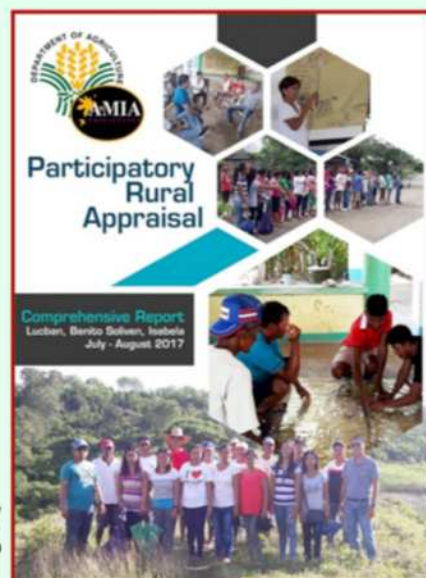
Vulnerability assessment/ risk targeting was done with the use of a standardized GIS-based tool Climate-Risk Vulnerability Assessment (CRVA) developed and introduced by CIAT – Philippines.



Based on the maps and indices from the CVRA, Municipality of Benito Soliven and the City of Ilagan were chosen for pilot landscapes in Isabela Province. Vulnerability and Suitability Assessment (VSA), a GIS-based mapping tool institutionalized by DA-RFO2 from the Philippine Rural Development Project, a World Bank assisted project, and the National Color-Coded Agricultural Guide Maps (NCCAG) or farmer's Guide map were also used to validate findings of the CIAT study. The NCCAG maps show what are the crops and where they are best grown amidst the water & soil-based hazards and risks.



A Participatory Rural Appraisal was conducted to profile the vulnerability of the chosen community or barangay, barangays Lucban in Benito Soliven and Sta. Victoria in City of Ilagan, Isabela.



Output No. 2.

Organized and mobilized two (2) in Barangays Lucban and Sta. Victoria communities towards establishing action learning platforms for CRA.



Output No. 3.

Facilitated community-level action learning through testing and sharing of CRA technologies, practices and other Innovations and enabled agri-fisheries communities for mainstreaming CRA in climate-resilient value chains and food systems.



Use of Organic Fertilizer



Mechanized Farming



Mushroom Production as another livelihood option



Dragonfruit Production along the SWIP embankment and vegetable production near the Pinacanaoan River



Rice Production (Hybrid seeds, organic fertilizer, soil analysis, Alternate Wetting Drying)



SWIP-Based Tilapia Production as livelihood option

Output No. 4.

Enhanced and sustained agri-fisheries communities' access to integrated CRA services for finance, climate information and institutional support services.



Free Crop Insurance



Strong LGU Support



Credit Support



Grand Field Day of AMIA Village

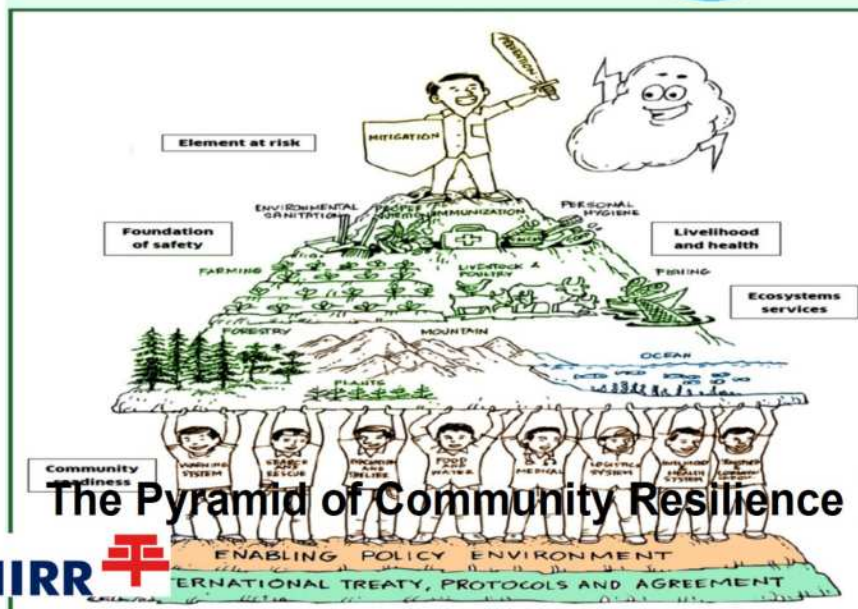


Technology Exposure of AMIA recipients



Monitoring of AMIA Village

RESULTS: A CLIMATE-RESILIENT AMIA VILLAGE WITH DEVELOPED AGRI-FISHERY VALUE CHAINS FULLY INTEGRATED WITH THE MARKET



The Pyramid of Community Resilience



ISO 9001:2015 RE-CERTIFICATION

In an audit surveillance that happened in November 13- 14, 2018 which was participated in by the DA - RFO 02 staff headed by Regional Executive Director Narciso A. Edillo, internal auditors and the 14 divisions, and Research Centers/Experiment Stations, the Certification International Philippines (CIP), Inc., confirmed DA RFO 02 its continuous registration as an ISO certified after a thorough audit. Mr. Marlon Campued, CIP lead auditor, congratulated the agency in holding its certification through employees' perseverance and commitment to the requirements of the Quality Management System (QMS). With the ISO 9001:2015 re-certification, all employees are expected to continue to set high standard by giving their best efforts and dedication at all times.



ISO 9001:2015

Certificate of Registration



Certificate of Registration

This is to certify that

Department of Agriculture – Regional Field Office No. 2
Tuguegarao City, Cagayan, Philippines

operates a management system which has been assessed as conforming to

ISO 9001:2015

for the scope of activities

Design, development and provision of regional agricultural policies and programs, products and services related to research and development, agribusiness and marketing, irrigation and farm-to-market road networks, agricultural equipment and facilities support, and regulation of agricultural product quality.

Certificate No: **CIP/5310/17/11/1015**
Issue Date: **19 December 2017**
Valid Until: **18 December 2020**
subject to adherence to the agreed ongoing audit programme, successful endorsement of certification following each audit and compliance with CI Regulations.



Renato V. Navarete
Chairman and President




Certification International Philippines, Inc.
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Appendix to Certificate

Department of Agriculture – Regional Field Office No. 2

Certificate No : **CIP/5310/17/11/1015**

- Southern Cagayan Research Center**
Iguig, Cagayan, Philippines
- Cagayan Breeding Station**
Solana, Cagayan, Philippines
- Northern Cagayan Experiment Station**
Abulug, Cagayan, Philippines
- Batanes Experiment Station**
Basco, Batanes, Philippines
- Cagayan Valley Research Center**
Ilagan, Isabela, Philippines
- Isabela Experiment Station**
Gamu, Isabela, Philippines
- Quirino Experiment Station**
Aglipay, Quirino, Philippines
- Nueva Vizcaya Experiment Station**
Bagabag, Nueva Vizcaya, Philippines



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AUTOMATION AND CONNECTIVITY INFRASTRUCTURE

An interconnected Local Area Network (LAN) using wireless LAN Technology

The whole DA compound in San Gabriel, Tuguegarao City has been connected, wirelessly thru a wireless network technology using 10 access points as its backbone. Interconnectivity among offices and operating units have been achieved thru this LAN technology. Computers and peripherals are now connected to a server including mobile devices. Resources such as printers and network storages are now being shared across the network.

Centralized communication thru IP Phone/INTERCOM

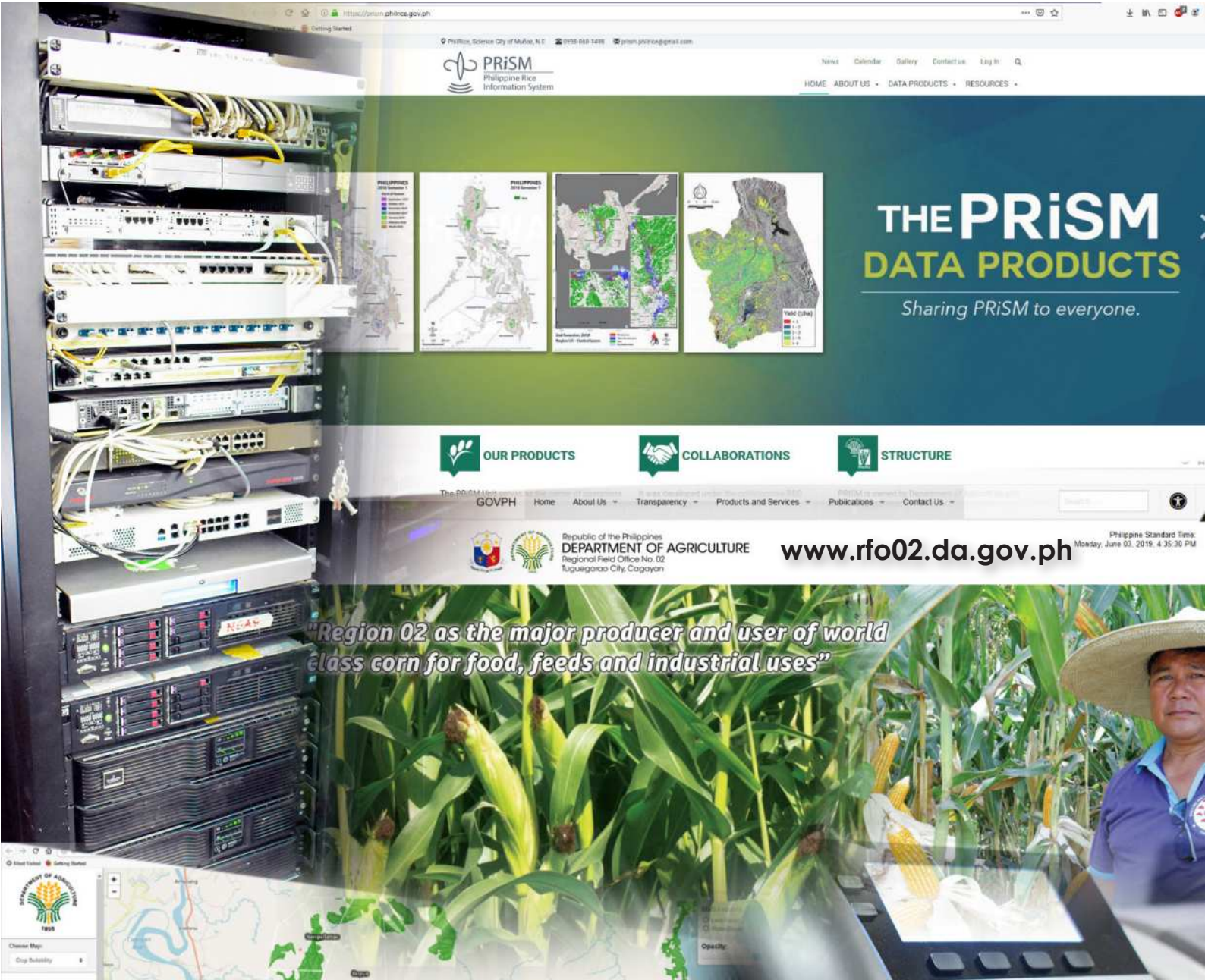
IP phones are deployed across the offices of DA-RFO2 using VOiP technology. This avoids communication expenses using commercial service providers such as NDD thru PLDT or mobile networks, Smart or Globe. Dissemination of information thru voice has become easier because IP phones are directly connected to our central office. Calling across DA offices nationwide have been easier, accessible and cost-efficient since this IP phone deployment.

Internet Service significantly faster by using a dedicated leased line (40 Mbps)

DA-RFO2 have tapped the services of PLDT iGate that offers businesses high-speed, reliable and managed connectivity to the global internet. Across its LAN, high-speed internet has been integrated as additional service to the different offices of DA-RFO2 operating units. iGate is guaranteed to support bandwidth-intensive applications and mission-critical communication that our office requires in support to online financial and physical reporting, videoconferencing, technical support, network storages, system development and usage, and other future systems being developed in-house and from ICTS. Other features are:

- High-speed fiber optic backbone
- Routes that provide high-speed access to USA, Europe, Asia Pacific peering partnerships
- Fully-diversified international cable systems
- Direct connection to at least six cable systems
- Connectivity to Asia-Pacific countries
- Peering arrangements with at least 11 countries to regionalize internet traffic
- Fully-redundant network with core switches and multiple gateway boarder routers strategically located in separate data centers

With these, the Information and Communications Technology Unit (ICTU) of the Planning, Monitoring and Evaluation Division (PMED) in partnership with the Training Unit of the Finance and Administrative Division (FAD), spearheaded an Information and Communications Technology (ICT) capacitation training.



On the GIS training, topics and activities presented were Introduction to Quantum Geographic Information System (QGIS) which is an Open Source GIS software for processing geographic data to generating information on a map; and hands-on exercises on basic and intermediate GIS process. Moreover, existing GIS like the National Color-Coded Agriculture Guide Map (NCCAG), the Philippine Rice Information System (PRISM) and Applied Geotagging Technology (AGT) component of the Philippine Rural Development Project (PRDP) website were demonstrated to explain concepts and possible application of GIS to the trainees.



OTHER ADMINISTRATIVE SUPPORT SERVICES

Capacitation towards Personnel Efficiency & Competency

- Improved conduct of TNAs of personnel as basis for Training Plan & Training Calendar
 - 35 personnel trained on SDC Track I
 - nominated 137 employees to attend external staff trainings
 - coordinated 55 trainings
 - conducted 6 trainings/seminars
- As a result, there were six (6) regularized contractual employees and eight (8) regular employees promoted.

Ensure quick retrieval and prompt action to requested Document/ Record available at the Record Unit

- Retrieval of requested documents under the custody of the unit was made quickly and promptly in 2-5 minutes upon request. (15 minutes' target maximum time) and digitized/ scanned copy of requested documents are readily available for printing. The satisfaction of clients is achieved as reflected in the Internal Client Satisfaction Feedback (ICSF) for requests acted upon.
- All current files were digitized/ scanned that reduce cost on the mass production of documents and reduce space consumption in filing system (less paper).
- Reduced/regulated expenses for architectural plans and design by P2,859,000.00 with fifteen (15) plans/designs prepared by hired Job Orders.





Operationalization of Modern & Sophisticated Laboratory Equipment/ Facilities for Food & Bio Safety

➤ Immediate and accurate diagnosis of plant pests and diseases through laboratory diagnostic activities for proper pest management recommendations. Accurate and immediate release of pesticide residue test for vegetables. Promote use of Bio-Control Agents (BCA) for control of RBB Zone to provide Accurate diagnosis of samples, new technologies information based on the results of the study, DNA-based disease diagnosis for plants, minimized yield loss.

➤ In support to the National Program in the reduction of Anthrax, Hemorrhagic septicemia, gastrointestinal parasitism, rabies and other priority diseases and to maintain Region 02 as FMD and Bird Flu Free Zone.

1. With the new VITEK – 2 EQUIPMENT for Bacterial Isolation & Identification, testing/identification takes one and a half days, not unlike before which takes about 3 to 4 days; can also perform **Antibiotic Sensitivity Test (8 hours)**, before with the use of antibiotic disc, it takes 24 hours or more, for rapid diagnosis of emerging & economically important livestock diseases and efficient prevention and control of economically important livestock diseases to maximize profitability and income of farmers
2. Molecular diagnosis is already being done as well, particularly with **five (5) specific diseases**. This PCR testing already identifies specific pathogen causing a certain disease. Efficient prevention and control of economically important livestock diseases to maximize profitability and income of farmers
3. Recognized by different institutions/state universities & colleges as training ground for students taking up Veterinary Medicine, B.S. Biology, and other agricultural courses, for their clinical internship, on-the-job training, conduct of thesis and researches. Maintained the identity of Region 02 as FMD and Bird Flu Free Zone this resulted to increase of number of walk-in clients (students and researchers) from **241 in 2017 to 387 in 2018**.

➤ Provided and facilitated release of accurate analysis on: mixed feeds and feed ingredient samples to ensure standards for consumer safety and product acceptability and corn samples in support to Aflatoxin Prevention Program, Increased the number of walk-in clients from 10 in 2015 to 85 in 2018, facilitated release of analysis of results to GAP applicants (corn quality achiever's award), two (2) Contractual recently passed the chemical technician board exam and Upgraded laboratory equipment that helps reduced the analysis time of feeds/food samples. With this, RFCAL became known for its services to provide services to ensure product quality, acceptability, and food safety, compliant to IRR of RA 10657 (Chemistry Law) requirement of having Chemist/Chemical Technician to conduct analysis and database on aflatoxin levels of corn in Region 2.

➤ To ensure safe, quality and sustainable food in Region 2, operationalization of the Food Incubation Center providing modern and sustainable food processing technologies, ensuring quality product and food safety in Region 2, assisted 25 food processors in product development through sensory evaluation, packaging assessment and process improvement/development, Assisted three (3) processing units in Cagayan in preparation for their application of LTO to Revived operation of the Food Technology Development & Incubation Center, 25 food processors with improved product, process and packaging and three (3) processing units with minor repairs and improvement, ready for LTO application by 2019.



DZDA 105.3 Mhz FM Radyo Pangkaunlaran Educational Radio of DA-RFO 02

In a bid to provide speedy and timely delivery of appropriate information, matured technologies and breakthroughs, success stories and good agricultural practices to farmers, fisherfolks and other agri-stakeholders, the Department of Agriculture Regional Field Office No. 02 (DARFO 02) through the Regional Agriculture and Fisheries Information Section (RAFIS) perceived the need to establish a community radio station solely for educational purposes.



Thus, on September 19, 2014, after fulfillment of the requirements from the National Telecommunications Commissions (NTC), finally, a 1-kilowatt educational radio station dubbed as DWDA 105.3 MHz FM “Radyo Pangkaunlaran” station was conceptualized and established at DARFO 02 compound, San Gabriel, Tuguegarao City, Cagayan.

The educational radio station is equipped with State-of-the-Art broadcast facilities and internet live streaming. It is the first radio station owned and operated by a field office of the DA in the entire country.

After a year of test broadcast, the DWDA 105.3 Mhz FM “Radyo Pangkaunlaran” started its regular programming on July 4, 2016.

From CY 2016 to July 2018, the DWDA 105.3 FM Radyo Pangkaunlaran is on a regular programming every 5:00 am – 5pm from Monday to Saturday with transmitter and studio located at the DA-RFO 02, San Gabriel, Tuguegarao City, Cagayan.

As per monitoring as to the reach of the station conducted by DA-RAFIS Staff, it was found out to have a clear signal among 12 nearby towns of Cagayan namely: Iguig, Amulung, Baggao, Alcala, Lasam, Peñablanca, Enrile, Solana, Tuao, Piat, Rizal and Sto. Niño aside from Tuguegarao City. For the province of Isabela, it has a clear signal on eight (8) municipalities. These are San Pablo, Sta Maria, Cabagan, Tumauni, Quezon, Mallig, San Manuel and Roxas.

The station, likewise, reaches listeners and viewers nationally and internationally since it operates via live streaming and through social media (eg. Facebook page: DA Rehiyon Dos and DA Region 02 – Cagayan Valley).

The radio programs aired were handled by trained farmcasters and experts of DA –RFO 02, Research Center and Experiment Stations, Division, Section and Operating Units following a magazine format to include music, spots, plugs, discussion with a subject matter specialist/focal person on a certain topic and a question and answer portion to encourage listeners’ participation.

To date, DZDA is now operating from 5:00 AM to 7:00 PM from Monday to Saturday with free slots of 13 government agencies and private entities. This is aside of the programs being managed by divisions, banner and special programs and research centers and experiment stations of the DA-RFO 02.

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2018 ANNUAL REPORT
Department of Agriculture - Regional Field Office No. 02