



Accelerating the dissemination of associated technologies for increasing yield and profitability in irrigated ecosystem: The Region 2 Experience

Evangeline B. Sibayan Supervising SRS

### LIST OF ASSOCIATED TECHNOLOGIES

### Seed Selection

 Use of the right variety and quantity of quality seeds recommended in the area

### Crop Establishment

 Use of plastic drum seeder for row seeding

# Tillage

 Reduced /zero tillage, dry tillage

Water Management

AWD/CI and aerobic rice (AR) culture



### LIST OF ASSOCIATED TECHNOLOGIES

# Nutrient Management

• RCM/NM, LCC, MOET, NOPT, STK

# Pest Management

 Integrated pest management on DS, reduced tillage and AWD fields

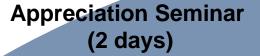
Harvest and Postharvest

 Mechanized harvest and post harvest operations



Methodology







**On site Briefing** (simultaneous) for the establishment of Techno Demo Farms



Implementers' Meeting

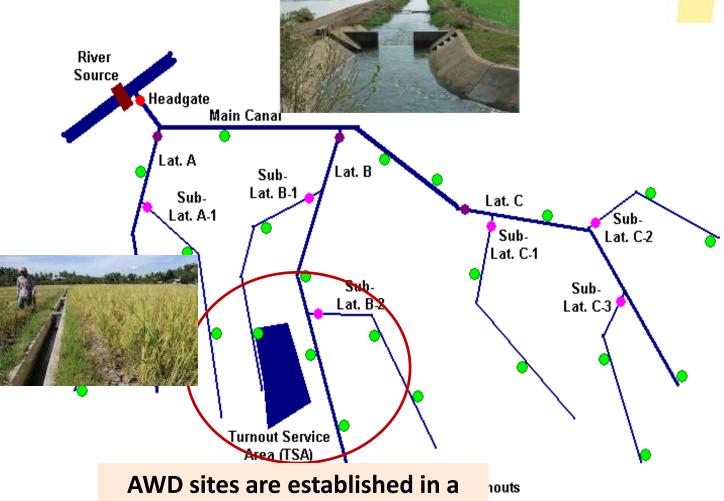


### TARGET FOR QUIRINO

LOCATION	NAME OF IA	TECHNOLOGY TO BE SHOWCASED	FOCAL PERSON	Contact number
SAGUDAY	CENTRO KASANGA	RCM, AWD, DRUM SEEDING	Celedonio A. Chiong	09158797249
SAGUDAY	PILAK-PILAK	RCM, AWD, Drum Seeder	Celedonio A. Chiong	
ECHAGUE	MINSANPANGA	RCM, AWD, 60 KG/HA SEEDS	Raineir C. Aquino	09156451818
ECHAGUE	SALIMIG	RCM, AWD, 60 KG/HA SEEDS	Raineir C. Aquino	
MADDELA	TUNGCAB DUMABATO	AWD, Transplanting, RCM	Danilo c. Otoman	09175270188
MADDELA	UPPER VILLA HERMOSA	Drum Seeder, AWD	Danilo c. Otoman	



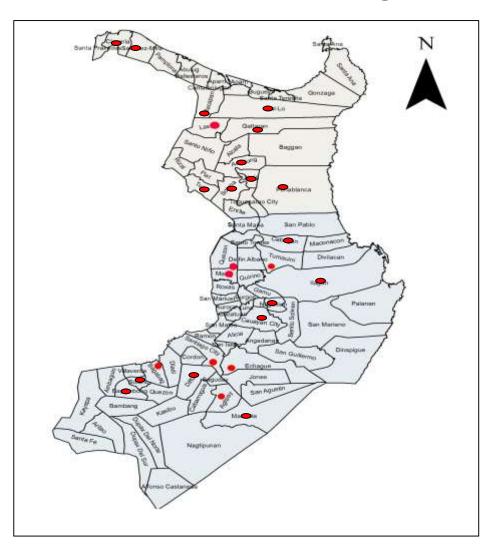
# Methodology



AWD sites are established in a Turn-out Service Area (TSA) with 30-50 farmers



### Location of Associated Tech Demonstration Sites in Region 2



PROVINCE	IRRIGATORS ASSOCIATIONS		
CAGAYAN			
Baggao	Nelia		
Gattaran	Ubbog		
Allacapann	Bisip		
Amulung	Cabamma		
Lallo	Lallo Eas, Mirasol		
Tuao	Namnama		
Sta. Ana	Dagupan		
Penablanca	Cabsan		
Solana	Muhara		
Lasam	Sanngir, Nabanaggan West		
Claveria	Bensang		
Sanchez, Mira	Badagmar		
lguig	Santiago		
ISABELA			
Cabagan	Garita		
Mallig	Lateral D, Manono, Olango, Holy Friday, Maligaya, Centro		
Tumauini	Cumabao, Bantog Bayabo,Liwanag, BALUFIA		
llagan	San Juan		
Santiago City	Lavermos		
Cauayan	San Pablo		
Naguilan	Minagga		
Echague	Rumang-ay		
QUIRINO			
Saguday	Magdisag		
Diffun	Saranay ,MARIIS		
Madella	Tungcab, Cabarana		
Aglipay,Quirion	Baro A Parugruyan		
NUEVA VIZCAYA			
Solano	Tucal, Lactawan,Bintawan,Lacar Dam, DADAP, Curifang		
Bayombong	Lower Addawan, Paitan Farmers Org		
Bagabag	Lantap-Tay-Ak		





Collective Conduct of on site briefings (PhilRice, RFO 2 and NIA 2)





Establishment of demo farm and monitoring/data gathering





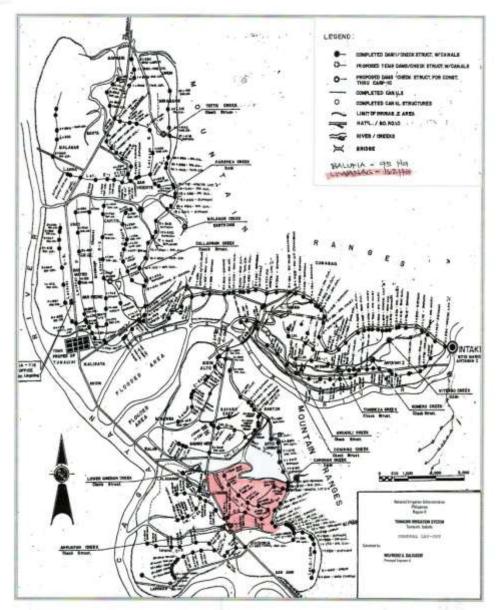


Field Day at Liwanag IA, Tumauini IS, Tumauini, Isabela, March 2016



# **RESULTS**





**Tumauini Irrigation System (TIS)** 

### **Case 1- AWD Site**

Details	Values
Total Service Area (ha)	3,020
Number of IA	14
Farmer Beneficiaries	1,817
Number of TSA	147
Length of Canal (km)	11.4
Area of IAs under	
Study (ha)	
BALUFIA	94.5
LIWANAG	170.4

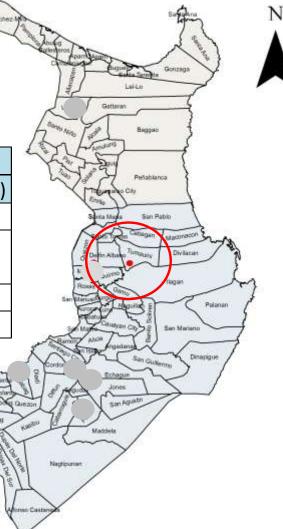
\*TSA- Turn out service area



### **TUMUAINI Irrigation System, NIS 1, Isabela IMO**

#### ✓ Draws water from Cagayan River

Details	Irrigators' Associations			
Details	BALUFIA (12th IA)	LIWANAG (13th IA)		
Area (ha)	90	170		
Number of Farmer				
Beneficiaries	71	140		
Number of TSA	5	7		
Canal Length (km)	2.0	18.9		



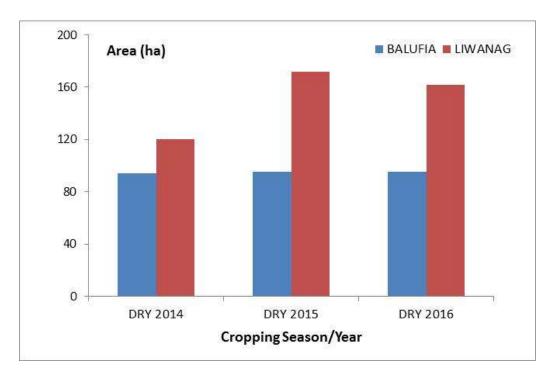
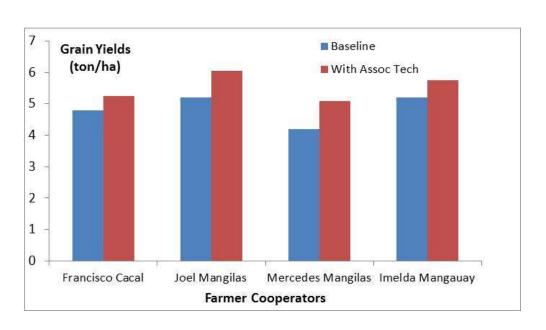


Figure 1. Graph showing the increase in irrigated area in Liwanag IA during 2015 and 2016 DS

 Increased cropping intensity of Liwanag IA from 1.8 to 2.0 after Balufia IA adopted AWD





 Increased grain yields of farmers by 9-18% adopting AWD relative to the conventional practice (CF)

Figure 2. Grain yields of selected farmers in Balufuia IA practicing AWD, 2016 DS





# CASE 2



### Addalam RIS, NIS 1, Quirino IMO

Congressional District 1

Composed of 17 las, 10, 626 service area and

• 6, 755 farmer beneficiaries

Details	Baro a Pagrugyan IA
Service Area (ha)	464
Number of Farmer	
Beneficiaries	350
Number of TSA	18
Toposequence	17th IA: Tail end of Addalam RIS



Dinapigue





Site verification and distribution of observation wells to farmer cooperators

Table 1. Fertilizer recommendation based on RCM and farmers' practice for Baro A Pagrugyan IA, Addalam RIS, Villa Pagaduan, Aglipay, Quirino 2016 DS

Name of Farmer	Variety	Farmers' Practice	RCM Recommendation	Actual Application	Yield (t/ha)	
		15 DAT 2 bags C + 1 bag 21-0-0	0-14 DAT 4bags 14-14-14	7DAT 4bags 14-14-14		
Merlita C. Belmonte	Hybrid	30 DAT 2 bags urea + 1 bag C	21-24 DAT 2bags 46-0-0	22 DAT 2bag 46-0-0	7.34	
		55 DAT 2 bags urea + 1 bag 0-0-60	34-39 DAT 2 bags 46-0-0	34 DAT 2bag 46-0-0 + 1 bag 0-0-60		
		NPK= 123.5-14-44	NPK= 120-28-28	NPK= 120-28-58		
	Hybrid	15 DAT 2bags 14-14- 14 + 1 bag 46-0-0	0-14 DAT 4bags 14-14-14	7DAT 4bags 14-14-14	6.25	
Benito Lagmay		36 DAT 2bags 46-0-0 + 1bag 14-14-14	21-24 DAT 1.5bag 46-0-0	22 DAT 1.5bag 46-0-0		
		Booting 1 bag 21-0-0	34-39 DAT 1.5bag 46-0-0	36 DAT 1.5bag 46-0-0 + 1 bag 0-0-60		
		NPK = 100.5-21-21	NPK= 97-28-28	NPK= 97-28-58		
		15 DAT 2bags 14-14- 14 + 1 bag 46-0-0	0-14 DAT 4bags 14-14-14	7DAT 4bags 14-14-14		
Noli Castillo	Hybrid	36 DAT 2bags 46-0-0 + 1bag 14-14-14	21-24 DAT 1.5bag 46-0-0	22 DAT 1.5bag 46-0-0	5.86	
		Booting 1 bag 21-0-0	34-39 DAT 1.5bag 46-0-0	36 DAT 1.5bag 46-0-0 + 1 bag 0-0-60		
		NPK = 100.5-21-21	NPK= 97-28-28	NPK= 97-28-58		

Table 2. Profitability analysis between farmers' practice and adoption of AWD, RCM and hybrid rice, Baro A Pagrugyan IA, Addalam RIS, Villa Pagaduan, Aglipay, Quirino 2016 DS

Farmer Cooperator	Technologies adopted	Grain yield (kg/ha)	Gross income (Php)	Production cost (Php)	Net income (Php)
	Baseline Data	5,600	78,400	47,241	31,159
Merlita C. Belmonte	AWD + Hybrid Rice + RCM	7,340	102,760	60,237	42,523
	Baseline Data	5,100	71,400	46,139	25,261
Benito Ligmay	AWD + Hybrid Rice + RCM	6,250	87,500	53,556	339,944
	Baseline Data	5,400	75,600	47,466	28,134
Noli Castillo	AWD + Hybrid Rice + RCM	5,860	82,040	51,831	30,209

Name: Leonida Baniqued Address: Cento 1, Mallig, Isabela

(17.20844, 121.6173)

Recommended Rate: 133.1 - 37.52 - 16.2 - 11.02

Variety: NSIC Rc196H (MESTISO 16)

Target Yield: 9.36ton / hectare











			N. P.		
Pagsusuwi	Pinakamaramin g bilang ng suwi	Paglilihi	Pamumulaklak	Pagialaman hanggang Paggulang	
8-14	21-27	44-50	57-63		
					Total
46.0kgs 1.0 bag(s) P 993.6	46.0kgs 1.0 bag(s) P 993.6				P 1,987.2
44.0kgs 0.75 bag(s) P 844.8	58.0kgs 1.25 bag(s) P 1,113.6	101.0kgs 2.0 bag(s) P 1,939.2	58.0kgs 1.25 bag(s) P 1,113.6		P 5,011.2
3.0kgs 0.0 bag(s) P 85.2			14.0kgs 0.25 bag(s) P 397.6		P 482.8
12 kgs P 384					P 384
P 2,307.6	P 2,107.2	P 1,939.2	P 1,511.2	Grand Total	P 7,865.2
	8-14  46.0kgs 1.0 bag(s) P 993.6  44.0kgs 0.75 bag(s) P 844.8 3.0kgs 0.0 bag(s) P 85.2  12 kgs P 384	Pagsusuwi Pinakamaramin g bilang ng suwi  8-14 21-27  46.0kgs 46.0kgs 1.0 bag(s) P 993.6  44.0kgs 58.0kgs 0.75 bag(s) P 844.8 0.75 bag(s) P 1,113.6  3.0kgs 0.0 bag(s) P 85.2	Pagsusuwi Pinakamaramin g bilang ng suwi  8-14 21-27 44-50  46.0kgs 46.0kgs 1.0 bag(s) 1.0 bag(s) P 993.6  44.0kgs 58.0kgs 101.0kgs 0.75 bag(s) 1.25 bag(s) 2.0 bag(s) P 844.8 P 1,113.6 P 1,939.2  3.0kgs 0.0 bag(s) P 85.2	Pagsusuwi Pinakamaramin g bilang ng suwi  8-14 21-27 44-50 57-63  46.0kgs 1.0 bag(s) P 993.6 1.0 bag(s) P 993.6 44.0kgs 58.0kgs 1.25 bag(s) P 844.8 P 1,113.6 P 1,939.2 P 1,113.6 3.0kgs 0.0 bag(s) P 85.2 12 kgs P 384	Pagsusuwi         Pinakamaramin g bilang ng suwi         Paglilihi g bilang ng suwi         Pamumulaklak hanggang Paggulang           8-14         21-27         44-50         57-63           46.0kgs 1.0 bag(s) P 993.6         1.0 bag(s) P 993.6         1.0 bag(s) P 993.6           44.0kgs 58.0kgs 1.25 bag(s) P 844.8         1.25 bag(s) P 1,113.6         1.25 bag(s) P 1,113.6           3.0kgs 0.0 bag(s) P 85.2         14.0kgs 0.25 bag(s) P 397.6

This total fertilizer computation is for a hectare rice field. To adjust the computation to your actual farm size, press adjust size Adjust Size

The potential yield of NSIC Rc196H (MESTISO 16) in your ricefield if you follow this recommended fertilization guide is 9.36tons/ha or 187 cavans, given that other crop management areas (cultivation, water management, pest management, etc.) are not neglected and conditions for crop growth and development are favorable for entire crop duration.



Accelerating the Development and Dissemination of Associated Technologies on Rice Production that are Resource Use Efficient

#### WATER SAVING TECHNOLOGY (WST) DEMONSTRATION FARM

#### TECHNOLOGY COMPONENT:

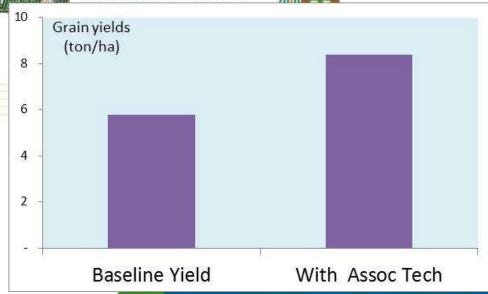
- A. Adoption of Controlled Irrigation/ Alternate Wetting & Drying (AWD)
- B. Use of Quality Seeds
  Registered & Hybrid Seed
  NSIC Rc222, Frontline Gold, NK 5017
- C. Minus One Element Technique with Android APP
- D. Mechanical Transplanter with 15 Days old seedling

Farmer Cooperator: LEONIDA A. BANIQUED

Location: CENTRO 2, MALLIG, ISABELA

Ecosystem: Irrigated with STW





# **Findings:**

- A well managed rice production with appropriate technologies will result to high yield.
- The MOET App set a target yield of 9.36t/ha and actual yield obtained was 9.38t/ha fresh weight.
- With AWD adoption, fuel consumed for irrigation was reduced, from 500 to 300 liters during the cropping season (2016 DS)



# CONCLUSION

These findings and success stories suggest a promising outcome that will:

- improve yields and profitability, and
- increase the area harvested (through collective adoption of AWD at the system level)

if out scaling and up scaling the dissemination of associated technologies is done.



# Acknowledgements

- Ms. LOVELYN A. GASPAR and Staff
  OIC-Res. Division/Sup. SRS/Regional Focal Person
  DA-Regional Field Office 02
  Tuguegarao City
- ENGR. WILFREDO U. SALVADOR and Staff
   Principal Engineer, Clustered Irrigation System
   (Tumauini, Mallig, Cabagan)
   Regional Irrigation Office 02
   Minante II, Cauayan City
- DA BAR for the funds



### **REGION 2 FSSP TEAM**



# THANK YOU FOR YOUR ATTENTION!





Raising Productivity and Enriching
Legacy of Heirloom/Traditional Rice
Through Empowering Communities in
Unfavorable Rice-based Ecosystem
(Heirloom Rice Project)

**COMPONENT 2.** Enhancing Local Capacity and Enterprise Building in Farming Communities

PhilRice Counterparts: RMiranda, LMandia, JBatcagan, NSabigan, RCredo, JCordero, EMaraganas, and AAcierto







### Rationale

HEIRLOOM

PROJECT

- Traditional rice cultivars passed down through generations, and are normally grown in small family farms.
- They are normally in demand locally and internationally due to their exceptional cooking quality, flavor, aroma, texture, color, and nutritional value.





Thus, the project aims to enhance on-farm conservation of diverse farmer-preferred (heirloom/traditional and climate-resilient) varieties to improve farm productivity and enhance local capacity for better market linkages.

# Objectives (Component 2)

- ✓ Strengthening existing community self-help groups (SHGs) of men and women farmers/indigenous people for better market linkages;
- ✓ Conduct Participatory Needs and Opportunities Assessment (PNOA/FGD), baseline surveys, and gender analysis of the farming activities and rice-based systems;
- ✓ Identification of priority interventions;
- ✓ Establishment of varietal performance trial for characterization of traditional/ heirloom varieties and participatory varietal selection (PVS);
- ✓ Establishment of demonstration farm for seed production of farmer selected and characterized varieties;
- Conduct of Trainings and Seminars through Farmers' Field School;

Provision of Identified Needs as Additional Interventions.

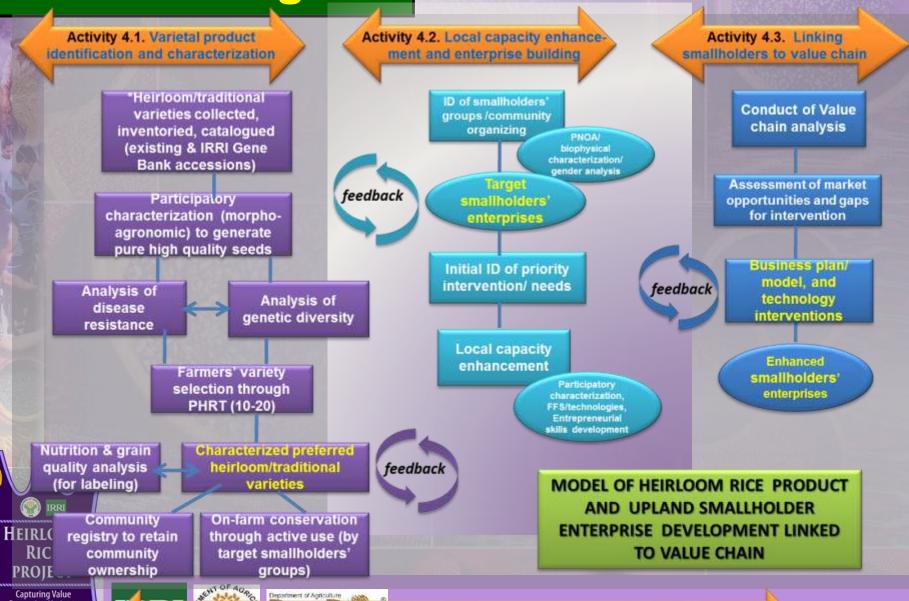






# Methodologies

Capturing Value Preserving Heritage



Activity 4.4. Documentation of model, Knowledge Management, and M&E

PHILIPPINE RICE RESEARCH INSTITUTE

# **Project Sites**





#### Pasil

- Dangtalan
- Balatoc



#### 🐥 Lubuagan

 Upper, Lower, & Western Uma

#### Ifugao



#### Hungduan

Hapao



#### **Banaue**

- Amganad
- Balawis

#### Mountain Prov.



#### Barlig

- Kadaclan
- Poblacion



#### Bauko

Bila & Bauko

#### **Benguet**



#### Kibungan

- Poblacion
- Palina









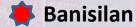


# **Project Sites**

#### **North Cotabato**



- Rangayen
- Upper Dado (new site)



- Wadya
- Malinao (new site)

Sultan Kudarat (2016 sites)



- Sewod
- Malegdeg

#### **SUMMARY:**

Project Sites: 5 Provinces, 9 municipalities, 20 barangays, 14 SHGs

Cooperatives: 3 registered cooperatives with RTFC as lead + 1 in Ifugao (for

registration)

Farmer Beneficiaries: 457 FFS farmers in CAR and 160 FFS farmers in Region 12









✓ Organized/ strengthened existing 14 community self-help groups (SHGs) of men and women farmers/ indigenous people for better productivity and market linkages (11 SHGs-CAR; 3 SHGs-Region 12).

# ADVANCED KNOWLEDGE



- ✓ Seed Selection and Seedling Management
- ✓ Importance of Good Land Preparation
- ✓ Advantages of Synchronous Planting and Good Crop Establishment
- ✓ Essential Elements for Rice Growth and Natural Sources of Plant Nutrients
- ✓ Water Management
- ✓ Pest Management
- **✓ Harvest Management**









✓ Conducted Participatory Needs and Opportunities
Assessment/ FGD For the provinces of Benguet, Mountain
Province, Ifugao, Kalinga, and North Cotabato with IRRI, DACARFO, DA-R12, SCUs, and parter LGUs.

# ADVANCED KNOWLEDGE

PNOA/FGD instruments for project design and formulation of priority interventions

✓ To determine suitable package of management technologies for the target environment









IRRI

### Identified needs/requests during the conduct of PNOA and Value Chain Analysis

bird management; ✓ Knapsack sprayers; ✓ Rice-Fish Culture; ✓ Organic Fertilizers	Micro tillers/multi tillers;  PVC pipes for water conveyance from river/creek to
With the state of	the field; Rehabilitation of damaged irrigation canal; Pathways from residential area to the field; Farm to Market roads; Multi-purpose drying pavements; Moisture meters; Weighing Scale; Customized Rice Mill (village); Processing Centers; Linkage to other Markets; Mini Threshers

✓ Priority interventions identified for designing training program and inter-disciplinary on-farm demo.



# PNOA/FGD instruments for project design and formulation of priority interventions

- ✓ Visioning Exercise
- ✓ Action Planning
- ✓ Inventory of Self-Help Group Assets and Intervention Prioritization
- ✓ Improvement of Postharvest Practices











Community Organizing, FGD, Gender Analysis, Participatory Needs and Opportunities Assessment

HEIRLOOM RICE PROJECT

Capturing Value Preserving Heritage







✓ Establishment of variety performance trial of 10-20 heirloom varieties for characterization, purification, and PHRCP.

ADVANCED KNOWLEDGE

- ✓ Characterization, purification and seed production of selected HRVs
- ✓ PTD/PHRCP design for establishment and promotion









# FFS Participatory Varietal Characterization Plot, CAR

Benguet	Mt. Province	Kalinga	Ifugao	
Gayyad	Waray	Unoy Lapoy	Innawi	
Lamadya	Fiagsang White	Ulikan Red	Balikwadang	
Kalinga	Pastillas	Chumalingan (Red)	In-ngudpur	
Bongkitan	Ingudpor	Chumalingan (White)	Color	
Balatinaw	Fiagsang Red	Allugit	Vallahang	
Diket	Chorchor-os	Walay	Innawi long awn	
Lablabi	Kuli-i	Tilopong	Bukig	
Lasbakan	Kuyogyo	Unoy Suggo	Kamanga	
Malonos	Ramenad	Allig	Imbuan	
Talokitok	Fiangruwan	Oltan Red	Pinkitan	
Gal-ong	Ominio	Yonga	Donaal	
Kamporo	Akangan White	Ulikan	Pinidwa	
Talangkay	Pinawid	Lapoy (Unoy)	Innawi	
	Fingawan	Unoy Chong-Ak	Minaangan	
	Sayong	Oltan White		
	Yumarin	Waray		
Yield Range: 2.65-3.10 t/ha	2.2-2.9 t/ha	1.7-3.1 t/ha	2.24-3.9 t/ha	

- ✓ 14 season-long Farmer Field School (FFS) and other capacity enhancement activities on crop production and enterprise management conducted in 9 sites in 5 provinces from CAR and Region 12.
- ✓ Achieved an average of 36 pax per FFS through the efforts of LGUs, SHGs and project staff.

ADVANCED KNOWLEDGE

- ✓ FFS Curriculum Guide
- ✓ PalayCheck for Highland Rice Production



RICE PROJECT





#### **Conduct of Farmer's Field School**















#### **Heirloom Rice Farmers' Field Day and Forum**

















(a) Mountain Province; (b) Ifugao; (c) Kalinga; and (d) Benguet participated by a total of 619 pax.

- ✓ Distribution of farm machinery and equipment such as panicle thresher, micro tillers, grain moisture meter, mini thresher, 1weighing scales, 26 knapsack sprayers, 420 super grain bags, and other identified training materials.
- ✓ Testing and Evaluation of proposed mechanical interventions.

# ADVANCED KNOWLEDGE

- ✓ Use of farm equipment
- ✓ Use of GPS in area measurement, altitude









# Summary of Interventions (Equipment Distributed)

#### CAR and Region 12

micro tiller	knapsack sprayer (16 li. Capacity)	panicle thresher	weighing scale (60 kg)	moisture meter	super grain bag	mini thresher
9	26	14	13	9	420	8









#### **Testing and Evaluation of Machines**



**Mini-Thresher** 

Capacity: 469 kg/hr



**Panicle Thresher** 

Capacity: 45 kg/hr

Micro tiller

Capacity: 600 sqm/hr





#### **Other Activities**

- ✓ On going development of a PalayCheck System for Highland Organic Rice Production, integrating the best farming practices in the area with new technologies package for each site;
- ✓ Hands on activities on Organic Foliar Fertilizer Fermentations
  (Fermented Fruit & Plant Juice, Oriented Herbal Nutrient, Snail &
  Fish Amino Acid) and Indigenous Micro Organism as supplemental
  source of plant nutrients;
- **✓** Post Harvest Training in collaboration with IRRI;
- ✓ Production area survey using GPS;
- ✓ Testing of New Varieties (Korean) for wet cropping season;
- Conduct of Training of Farmer-Trainers on Organic Heirloom Rice Production and Related Farming Technologies; and

HEIR FFS Mass Graduation.









# Supplying the Needs of a Highly Diversified Filipino Diet through Palayamanan Plus

Rizal G. Corales

Presenter



Plenary paper. 29<sup>th</sup> Rice R & D Conference. Philippine Rice Research Institute (PhilRice), Maligaya, Science City of Muñoz, Nueva Ecija. September 7-8, 2016

## Rationale

☐ We love to eat & food is the basis of our social life



3 meals of rice a day



2 starchy snacks in between



☐ We enjoy noodles mixed with meat, vegetables and flavorings





☐ We love soups and stews made with meat and vegetables









☐ We also love other meat and vegetable foods





☐ We love fish, shrimps & other aqua foods









☐ We consume lots of sugar and use high amounts of cooking oil







☐ Our meal is laid before us and we eat simultaneously from all dishes at random

#### **Breakfast**





#### Lunch/Dinner







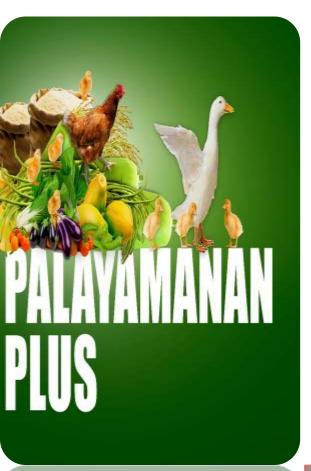
#### Rationale

☐ There are food production systems developed for small farmers, to ensure food security, strengthen local economies and allow consumers to connect with the origins of their food

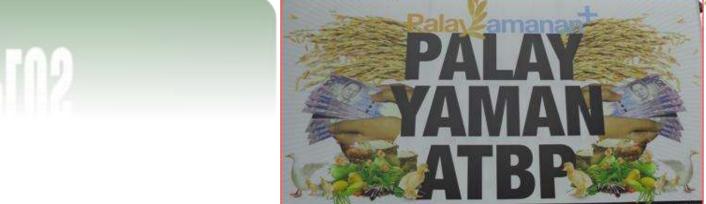
☐ However, the benefits of these food systems were believed to be not equally shared, accessed and unaffordable especially to low-income families in the rural communities.







Rice-based production system employing diversification, intensification, and integration of several farming ventures with the end in view of ensuring the availability and accessibility of affordable food for a highly diversified diet to people all year round, and increase rice farmers' income in a sustainable manner.



Kita, Kalusugan, at Kasaganahan....Mag Palayamanan Na!



Palayamanan Plus Components



Crop Enterprises







#### Diversification

- ☐ Diversified crops such as cereals, legumes, root crops, vegetables, and fruits.
- ☐ Diversified livestock to provide meat, milk, eggs and other food products
- ☐ Diversified aquaculture to provide different fish species, crustaceans and mollusc
- ☐ Diversified mushroom species (*Vovariella, Pleurotus, Ganoderma, Calocybe, Cuprinus*)



#### Intensification

- ☐ Crop combinations are altered in time and space to increase productivity and availability
- ☐ Use of early maturing rice varieties
- ☐ Short duration crops like mungbean, melon or young corn can be planted during the fallow period after rice
- ☐ Fruit, forage, & forest trees as border or windbreak plants









#### Intensification

- ☐ Some vegetables and other cash crops can be planted on bunds simultaneous with the rice crop.
- ☐ Intercropping or relay cropping also enhances crop intensification
- □ Duck and fish, and vegetables can be integrated with the rice crop (Rice-Duck, Rice-Fish and Sorjan Production System).



## Integration

☐ Product development and processing to contributes in the year-round availability and variety of micronutrient-rich foods, stimulate demand for farmers' crops and products and give consumers additional choice.





#### Multifunctionality

☐ Multifunctional approach of Palayamanan Plus recognizes interconnectedness of agriculture's different roles and functions in producing not only commodities to sustain the needs of a highly diversified diet but also non-commodity outputs such as environmental services and landscape amenities.



# Complete Filipino Diet







#### Where are we now?



- ☐ PhilRice Branch Stations
- ☐ Rice-Based Communities
  - ☐ Batac City, Ilocos Norte
  - ☐ Quirino, Isabela
  - ☐ San Fabian, Pangasinan
  - ☐ Maria Aurora, Aurora
  - ☐ Talavera, Nueva Ecija
  - ☐ Guagua, Pampanga
  - ☐ San Rafael, Bulacan
  - ☐ Cabadbaran City, Agusan del Norte



# Our partners

- ☐ PhilRice Branch Stations
- ☐ SUCs: ISU, PSAU, BASC
- ☐ GAs: DA-Rice Program, DA-BAR, ATI, PCC, NDA, BFAR, DA-RFUs
- Provincial & Municipal LGUs













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