

BANTAY ASF sa BARANGAY

A PROJECT OF THE PHILIPPINE COLLEGE OF SWINE PRACTITIONERS (PCSP)



PROPOSERS

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INTRODUCTION

The Bantay ASF sa Barangay is a proactive Biosecurity & Surveillance program envisioned to halt the spread of **AFRICAN SWINE FEVER** from infected to non-infected areas in both commercial & backyard farms.

The project will be built on the spirit of volunteerism demonstrated by participants of **PCSP in Bulacan** who saw the value of government – private sector partnership to control the spread of ASF in Bulacan.



PROJECT PROPONENT

PHILIPPINE COLLEGE OF SWINE PRACTITIONERS (PCSP)

PROJECT PILOT AREA

PROVINCE OF BULACAN

IMPLEMENTING AGENCY

PROVINCIAL VETERINARY OFFICE (PVO)

PROJECT LEADER

Dr. Voltaire Basinang, Provincial Veterinarian (Bulacan)

PROJECT COORDINATORS

Dr. Maximino M. Montenegro Fellow, PCSP

Dr. Angel Antonio Manabat Fellow, PCSP

Dr. Romulo L. Masilungan, Fellow, PCSP

COOPERATING AGENCY

Dr. Clarissa Domingo PhD

Central Luzon State University (CLSU)

PILOT PROJECT DURATION

6 months (#1 production cycle)



PROJECT GOALS:

1. To complement DA/BAI ASF control programs and provide the means for business continuity by preventing loss of livelihood of both small holder and commercial swine farmers due to **African Swine Fever (ASF)**.
2. To protect pockets of of ASF free small holder and commercial swine farms where ASF has been reported by improving Biosecurity & proactive surveillance using PCR & ASF Nanogold Biosensor Test kit.
3. To assist in repopulating previously infected premises or identifying financial support facilities for alternative livelihood projects from the government or donor agencies for farmers whose lives were disrupted by ASF.



PROJECT IMPLEMENTATION

The **Bantay ASF sa Barangay** is envisioned to be partnership between the **private sector and government** with the **PVO & BAI** the as the lead agencies implementing the program.

The **PCSP** will be the lead private sector organization supporting the program together with the **PCSP in Bulacan** volunteers.

Other agencies both government & private will be consulted & invited to participate and support the project.



LOCAL GOVERNMENT UNIT SUPPORT

1. The support & commitment of the LGUs (province, municipal, barangay), swine farmers and residents of the pilot barangays is paramount for the project to succeed.

2. To assure cooperation of farmers, Geotagged and registered backyard swine farms that are compliant with PCSP Biosecurity Level 2 have to be assured by the LGU & national government of indemnification should they be infected by ASF.

3. All the above elements **MUST** be present before the project is implemented otherwise complete success cannot be assured.



SELECTION OF PROJECT PILOT BARANGAYS or MUNICIPALITIES

Barangays in **Quarantine & outside Quarantine Zone** (as defined by the **NATIONAL ZONING AND MOVEMENT PLAN FOR AFRICAN SWINE FEVER (ASF) 10-29-19**) will be selected for the project.

1. The **PVO** will identify the barangays or municipalities for the project.
2. All swine farms (of the barangay) within the **Quarantine Zone** will be included for Biosecurity monitoring & surveillance.
3. Swine farms (small holder & commercial) of ASF free barangays will be used as Controls.



BIOSECURITY and SURVEILLANCE

1. A **Biosecurity Plan** will be crafted to convert all swine farms of the barangay, particularly small holder swine farms to **Biosecurity Level 2 (PCSP 2019)** to comply with the:

NATIONAL ZONING AND MOVEMENT PLAN FOR AFRICAN SWINE FEVER (ASF). II. QUARANTINE AREA (1 km-radius) p2. 10-29-2019

- “a. All live backyard pigs (with Biosecurity Level 0 - PCSP) within the 1 km radius are to be included in a pre-emptive culling & destruction.”*
- “d. All live backyard pigs (with Biosecurity Level 1 & 2) are subject to testing.”*

2. A barangay map (with Geotagged livestock farms - particularly swine farms), roads, vehicle entry and exit points will be incorporated in the **Biosecurity Plan**.

PCSP BIOSECURITY CLASSIFICATION OF SWINE FARMS

DESCRIPTION		LEVEL 0			LEVEL 1			LEVEL 2		
				SCORE		TARGET	SCORE		TARGET	SCORE
Location	Distance (kms) from the nearest pig farm	<500 m			>500 m			>2 km		
Facilities	Clearly demarcated CDL - Clean Dirty Line, fenced	none			w/ fence			2x fence	4	0
	Signage of Biosecure Area / actions to follow	no								
	Shower In- Shower Out (with soap/shampoo)*	no			1x shower			2x shower	3	
	Complete change of clothing / footwear	no				4	0	NO	4	0
	Pest control program in place	no							4	0
	Regular cleaning & disinfection	no							4	0
	Observe downtime**	no			NO	4	0	NO	4	0
	Supplies decontamination (personal / farm supplies)***	no								
	Food items (no pork, pork products from outside)	no				3		YES	3	
	No food/ drinks in HSA / pig area	no								
	Water, chlorinated & regularly tested	no							4	0
	Load-in/Load-out (1-way), washed/disinfected between uses	no							3	
	Feeds, feed bags are not allowed to enter HSA****	swill				4	0	YES	4	0
	Dead pig disposal, covered	no				3			3	
	Records	Visitors log, mortality, with written biosecurity measures	no						3	
Vehicle movement	Vertically-integrated (not exposed to viajeros)	no								
	Dedicated feed truck	no								
	Trucks washed/disinfected/dried upon entry	no			NO	4	0	NO	4	0
TOTAL					61			76		
MINIMUM PASSING SCORE					48			54		
*1st at the gate entrance, Medium Security Area (MSA) / 2nd shower to High Security Area (HSA) ** at least 1 night *** use if UV/ Ozone/ Disinfection/ Fumigation **** Pelleted, no feed bags in HAS					RISK LEVEL					
		SCORE		4	very low. Mandatory score - PASS or FAIL only					
				3	low, Orange box is mandatory score					
				2	medium					
				1	high					
		0	A disqualification for the BIOSECURITY LEVEL.							



BIOSECURITY and SURVEILLANCE

3. Regular survey of the swine population & their health status (surveillance) will be conducted. Paired blood samples will be collected and tested using ASF qPCR & the ASF Nanogold Biosensor Test Kit .

SURVEILLANCE : RECOMMENDED ASF TESTING PROTOCOL

Active surveillance within the Quarantine zone (1km radius).

7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
X	X	X		X		X		X		X		X		X
D0	7	7		15		30		45		60		75		90

Active surveillance Outside the Quarantine area (7 km radius)

7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	release
X			X			X			X			X			X
D0			21			21			21			42			63

An Infected Area will remain under quarantine for a minimum of 90 days. Within 60 days, if no new cases are detected within the Infected area, testing can begin to release the area from quarantine. All premises within the Infected area will be retested at random on day 60, 75 and 90 at a 10% premises-level.



FARMS RELEASED FROM QUARANTINE ARE SUBJECT TO BI-ANNUAL ASF RANDOM TESTING FOR ASF.

SCORE		CLINICAL SIGNS	DESCRIPTION
4		High fever (>104°F)	May see huddling, red skin/ears, listless attitude, hot to the touch
		Erythema	Black/red/purple discoloration of skin, hemorrhages of distal extremities (ear tips, distal limbs, tail)
		Lethargic, Depressed	Moderate to Severe: reluctant to walk/move, recumbent
		Vomiting	
		Abortion (sows)	
3		Abnormal gait	Hesitant walking, incoordination
		Off-feed/ Anorexic	Not eating, No interest in food
		Emaciated	Backbone and ribs visible, head appears larger than body
		Bloody diarrhea	
2		Reduced feed intake	Shows interest in food, but does not eat
		Respiratory signs	Cough, Increased rate or effort, nasal discharge
		Epistaxis	
1		Eats slowly when fed	
		Empty stomach	Thinned body muscles
		Reduced amount of feces	
Total Score:			

Adapted from: M. Retolo DVM (PIC NA HAG)

BIOSECURITY: ANIMAL WASTE MANAGEMENT



From: **Animal Waste Management : Biogas Systems**
Dr. Gomersindo N. Canoy DVM, MSc
Aklan State University



BIOSECURITY and SURVEILLANCE

4. Creation of a data base to record all information pertaining to farms in the barangay or municipalities, (including viajeros) that will be pertinent to disease mapping & control.

The data will be collated and published in a **Barangay Monthly ASF Status Bulletin.**



BIOSECURITY & SURVEILLANCE

Implementation of the Biosecurity & Surveillance program will require:

- Deputation of PCSP members & selected swine vets as Biosecurity Officers.
- Training of Vets for Farm & Slaughterhouse Biosecurity audit
- Conduct of regular farm visit by Deputized Biosecurity/ Quarantine Vets to monitor pig health & farm compliance with the Biosecurity and ASF Surveillance Program.



ASF- FREE COMPARTMENTS (BAI Guidelines)

1. Successful implementation of the project should result in establishment of an OIE recognized **ASF-free compartments** in ASF infected zones .

- These will be composed of contiguous barangays or municipalities of the pilot area (ex. Bulacan) that will be **declared free of ASF.**

2. The parameters for an **exit plan** for the establishment of **ASF-free Compartments (Red to Yellow Zone)** will be proposed by a TWG sub-committee in consultation with the DA-BAI.

Reference:

NATIONAL ZONING AND MOVEMENT PLAN FOR AFRICAN SWINE FEVER (ASF). II. QUARANTINE AREA (1 km-radius) p10 10-2-19

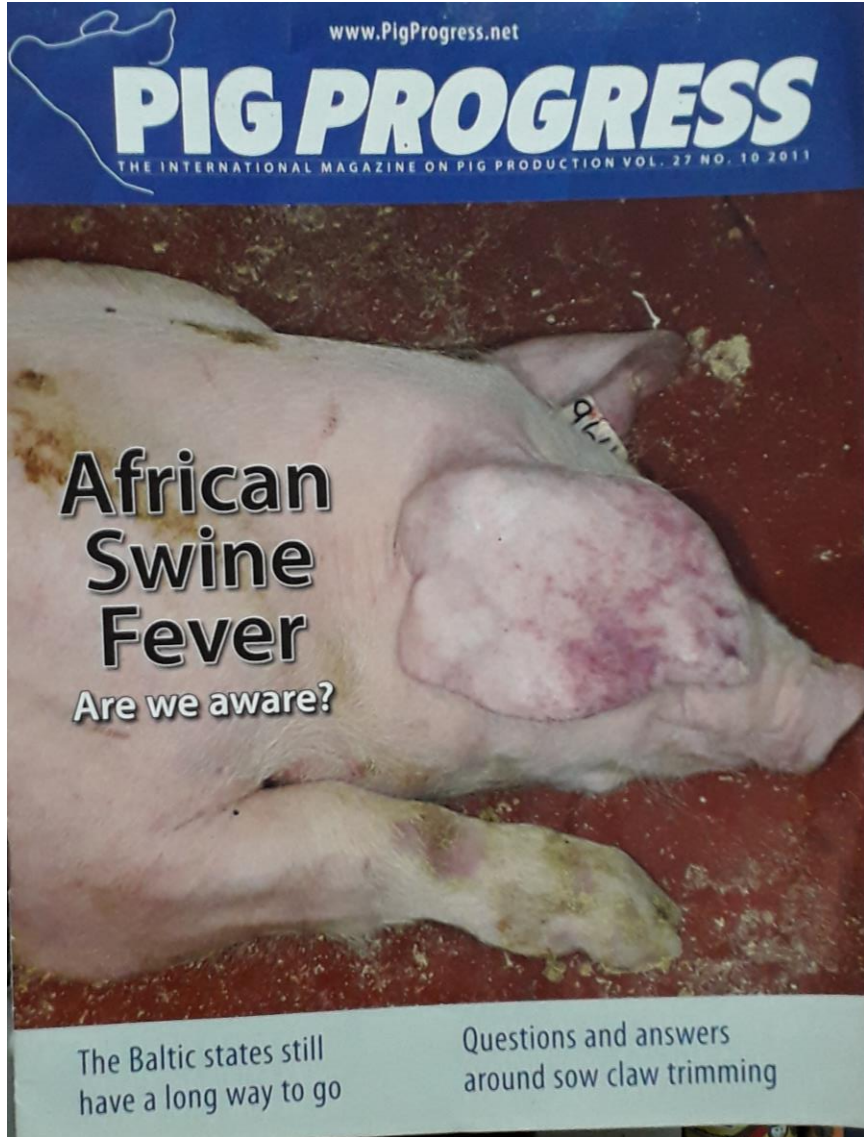
*“c. **The testing every 7 days (for farms in the Quarantine Zone – 1 km radius) shall continue until the classification of the quarantine zone is changed..... This also includes previously declared Red Zones that have been declared Free from ASF following BAI guidelines”***

SUMMARY



Expected project outputs:

1. Publish ASF status of pilot commercial & backyard farms in selected barangays in the PCSP website.
2. Validate the ability of PCSP Biosecurity Levels in protecting pig farms against ASF infection.
3. Validate recovery & repopulation procedures for depopulated infected premises.
4. Validate ASF Nanogold Biosensor Test Kit as an alternative cost effective diagnostic tool to PCR.
5. Validate procedure for an exit program from Red to Yellow Zone.



THANK YOU