Increasing Community Resilience For Food Security

Recommended goal after a territorial assessment was conducted in Tinoc from 2008-2010

IPSI 7th GA

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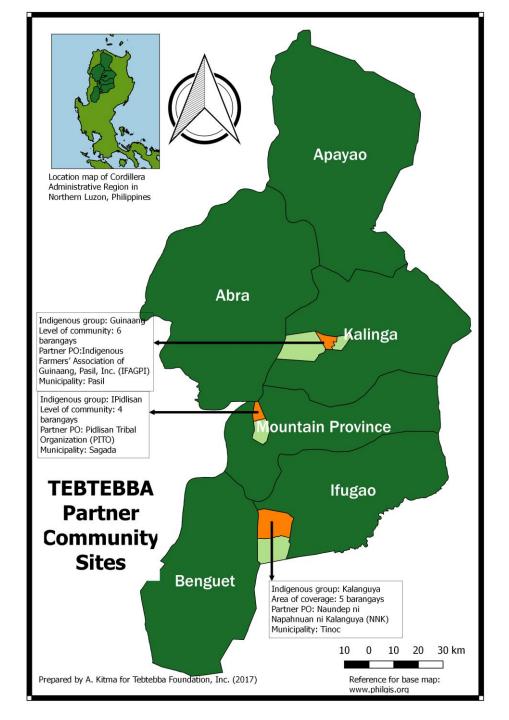




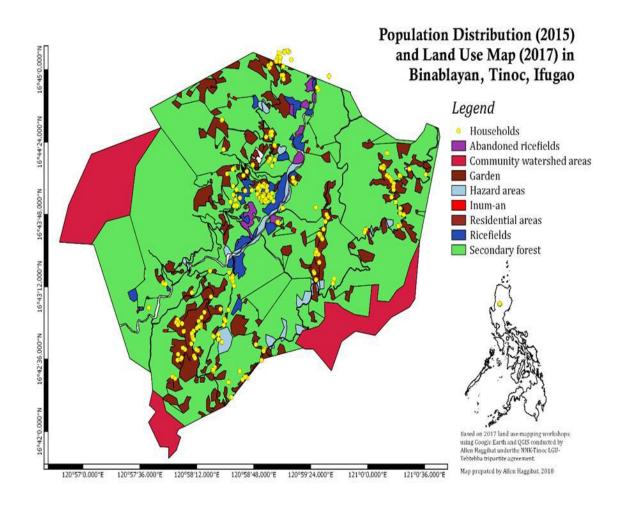
The traditional knowledge on territory management of the Kalanguyas' made possible the harmonious relations of the different nested ecosystems [of watersheds, woodlots, farmlands, homesite, etc. and the protection of the web of life within each of the land use. It illustrates a man-land-nature and spirit relations biased for the common good, resource conservation and protection -an ecosystems based approach with a strong culture and spiritual dimension

Veering away from these traditional knowledge systems and practices made negative impacts on the environment, food security, community health

Territory / land use assessment was replicated in two other tribal areas that came out with the same resolution – to strengthen, revitalize traditional knowledge and innovate for community development



Site where the innovation was tested with some academic tools



About a hundred years ago people settled and changed the grasslands [once a grazing land] into a mosaic land scapes of ricelands, tree home gardens, woodlots, rotational farming areas.

In 2004 they converted farms and forests to production site for monocrop commercial vegetables

Crops	Local name	English name	Scientific name	No. of	Status as of
				varieties	2017
Rootcrops	1. ubi	sweet potato	Ipomea batatas L.	26	Decreasing
	2. luktu	Yam	Dioscorea alata	2	Decreasing
	3. pihing	Taro	Colocasia esculenta	3	As is
	4. galyang		Alocasia macrorrhiza	1	As is
	5. kahuy	cassava	Manihot esculenta	1	As is
Legumes	1. aggayap	rice beans		1	Decreasing
	2. atab / aknaban	cow pea	Vigna sinensis	2	Decreasing
	3. kaldih	pigeon pea	Cajanus cajan	2	Decreasing
	4. utung	string beans	Vigna unguiculata	2	Decreasing
	5. biligan	winged beans	Psophocarpus tetragonolobus	1	Decreasing
	6. puhnuk / hang- awan	sitting beans		2	Decreasing
	7. mongo		Phaseolus mungo	2	Gone
	8. mani	peanut	Arachis hypogaea	2	Abundant
Cereals	1 . pagay	upland rice	Oryza sativa L.		Decreasing
	2. habug	wheat	Triticum spp		Gone
	3. gahilang	corn	Zea mays	3	Decreasing
	4. adlay	Job tears	Coix lacryma-jobi	1	Gone
Spices	1. laya 2. danggo	ginger onion leeks	Zingiber officinale Allium ampeloprasum		As is Decreasing
	langih amput	sesame	Sesamum indicum Allium sativum	2 1	Decreasing Decreasing
	5. hili	pepper	Capsicum frutescens	2	Decreasing
Fruit vegetables	1. appalya	bitter gourd	Momordica charantia	2	Decreasing
	2. talung	eggplant	Solanum melongena		Decreasing
	okra kalumbaha	lady finger squash	Hibiscus esculentus Cucurbita maxima	1	Decreasing Abundant
	5. tabungao	Squusi.	Caca and maning	-	Decreasing
	6. kammatih	tomato	Lycopersicon esculentum	5	Gone
Leafy Vegetables	1.	spinach	Spinacia oleracea	5	As is

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Indicator 1: Number of communities re-affirming their traditional knowledge

Indicator 2:Number households, communities taking action to revitalize TK to reclaim abandoned paddy fields, restore their forests using and innovating on their TK

Indicator 1. After territory assessment from 2008-2010, 12 of the 12 communities resolved to reaffirm their traditional knowledge on territory management AFTER (2015) (Only 6 are being monitored due to lack of capacity and collaborative work was discontinued); 2 indigenous communities also re-affirmed the validity of their knowledge systems and strengthening these are ways forward

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Indicator 1: No. of IP households revitalizing and innovating on their TK in agriculture

Indicator 2: Number of rice paddies reclaimed

Indicator 3: Number of hectarage of forest protected through revival of

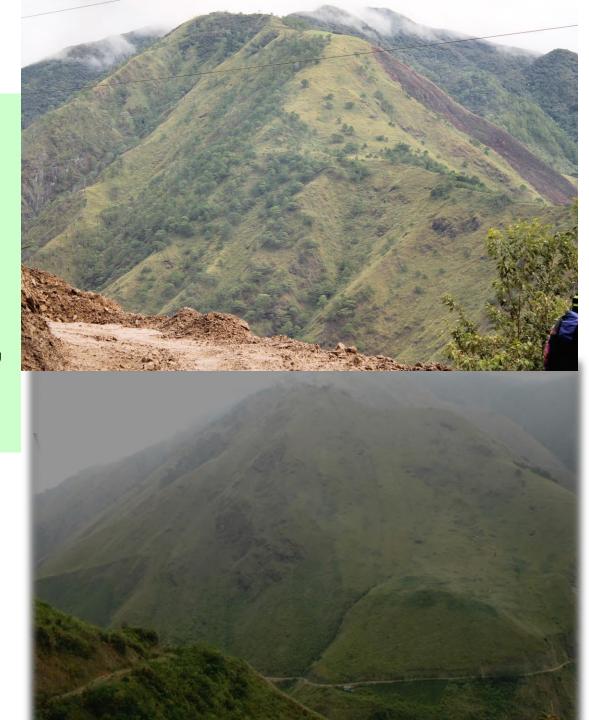
customary forest protection

BEFORE (2010)	AFTER (2015)	
	[note there was inaction from 2012-2014	
	27 in three villages	
[No baseline data on the villages that reclaimed their abandoned ricefields]	2 cluster of paddy fields in one village 4 hectares of paddy field in another village	

Indicator 3

Photo taken 08/09/2014 after peoples revived TK on forest protection, continued to be protected to date, hence continued forest growth

Grassland subjected to annual burning, Photo taken in Last quarter 2008







	Ginger growth stages			Sweet potato growth stages		
Insect classification	vegetative stage	rhizome initiation	maturation	vegetative stage	root formation	root maturation
A. Insect pests						
Aphids (Aphis sp.)	✓	✓				
Snout beetle (Oxyops sp.)	✓	✓				
Cockchaffer (Adoretus sp.)		✓				
B. Natural enemies	B. Natural enemies					
Big eyed bug (Geocoris sp.)	✓	✓				
Earwigs (Euborelia sp.)		✓				
Coccinelid (Cheilomenes sp.)		✓				
Damselfly (Agriocnemis sp.)	✓	✓		✓	\checkmark	
Small wasps (Brachymeria sp.)		✓			✓	
Field crickets (Gryllus sp.)		✓				
Praying mantids (Acontispa sp.)		✓				
Rove beetle (Calleida sp.)		✓				
C. Neutrals/visitors						
Flea beetle (Phyllotreta sp.)		✓				
House fly, (Musca domestica)	✓	✓		✓	✓	
Stingless Bee (Trigona sp.)				✓		













Note: The innovations has been promoted since 2012, field trial was done in 2015 only once

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Indicator 1: Effectivity of innovations to enhance soil fertility, increased productivity

Indicator 2: Assess cultural pest control through insect inventory

BEFORE (2012)	AFTER (2015)		
Field trial no record	Field trial - Soil pH improved from 4.65 to 6.25 no change in organic matter yield increased		
One woman who adopted since 2013 Production is 3.6 tons per hectare	** three years of continuous practice increased her production. to. 12 tons per hectare		
No previous data	showed 4 families of insect pests and 8 farmer friends insect families		



Experimental plots yielded more than 3 times the usual volume of production: from of 3.1 tons/ha to about 12 tons/ha. If up scaled in the 902 hectares riceland- will result to rice self sufficiency, a saving of more than US \$ 1M per year + income to some HH

Indicator 1: Number of proposals supporting the initiative be approved Indicator 2: Number of activities promoting innovations, TK revival funded by government BEFORE (2012) AFTER (2015 2 proposals approved to upscale the work in Suported by Dept of Agriculture, and barangay LGU

Message to the CBD for post-2020

Revitalization, innovations on traditional knowledge cuts across the Aichi Biodiversity targets and Agenda 2030. Hence direct support for these initiatives should be extended. Partnerships and networks building are vital to upscale communities of good practices to contribute to a transformative change.

One fundamental condition for IPLC's to continue to practice and innovate their traditional knowledge systems is the security of their rights to their lands, territories and resources, the base of their knowledge system.

Thanks