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FORMULATING AN INDIGENOUS CURRICULUM FRAMEWORK FOR INDIGENOUS PEOPLES' EDUCATION IN THE PHILIPPINES

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STORY OF OUR JOURNEY ON INDIGENOUS PEOPLES EDUCATION



I pay my respects to the traditional custodians of this Sami land, as well as the custodians of the land where I come from.

I acknowledge our elders, leaders and knowledge holders in both our cultures.

Past, present and emerging.



WHERE I'M FROM







7640 Islands About 2000 are inhabited Capital City: Manila Baguio City is 243 km from Manila Part of the Cordillera Administrative Region

CAR is home to more than 1.5 million indigenous populations, consisting of more than 15 diverse ethnolinguistic groups, and counting.

WHERE I'M FROM



WHERE I'M FROM

8,599 km

Distance from Baguio to Guovdageaidnu





A Kankana-ey-llocano from the Philippines

My research interests and advocacies are defined by my identities as an indigenous person, mathematician, mathematics educator and activist



The Indigenous Peoples of the Philippines

- Around 110 ethnolinguistic groups that may be identified as IPs; estimated to be 15M-20M (National Commission on Indigenous Peoples - NCIP)
- 33% in the Luzon group of islands;
- 6% in the Visayas group of islands; and •
- 61% Mindanao group of islands
 - (NCIP, 2011; ECIP, 2006)

THE INDIGENOUS PEOPLES OF THE PHILIPPINES



CAR and REGION I REGION II

REST OF LUZON

ISLAND GROUPS

EASTERN & SOUTHERN MINDANAO CENTRAL MINDANAO

NORTHERN & WESTERN

REGION II/CARABALLO MOUNTAIN RANGE Agta, Kalanguya, Bugkalot, Isinai, Gaddang, Aggay, Dumagat, Ibanag, Itawis, Ivatan

REST OF LUZON/ SIERRA MADRE MOUNTAIN RANGE Aeta, Negrito, Baluga, Pugot, Abelling, Agta, Dumagat, Remontado, Bugkalot, Cimaron, Kabihug, Tabangnon

SOUTHERN AND EASTERN MINDANAO Manobo, Mandaya, Mansaka, Dibabawnon, Banwaon, Bagobo, Ubo Manobo, Tagakaolo, Talaingod, Langilan, Mamanwa, Higaonon, B'laan, T'boli, Kalagan, Tagabawa, Manobo Blit, Matigsalog, Sangil, Tigwahanon

CENTRAL MINDANAO

Aromanon, Teduray, Bagobo, Ubo Manobo, Higaonon, Subanen, Maguindanaon, Maranao, Iranon, Karintik B'laan, Lambangian

THE INDIGENOUS PEOPLES OF THE PHILIPPINES

- Descendants of populations which inhabited the country, at the time of conquest or colonization, or at the time of inroads of non-indigenous religions and cultures, or the establishment of present state boundaries
- Retained some or all of their own social, economic, cultural and political institutions
- Includes those who may have been displaced from their traditional domains or who may have resettled outside their ancestral domain

Source: Republic Act 8371, Section 3h, Chapter 2



THE INDIGENOUS PEOPLES OF THE PHILIPPINES

The UNDP (2010) reports that:

"In the Philippines, IPs have been subject to historical discrimination and marginalization from political processes and economic benefit. They often face exclusion, loss of ancestral lands, displacement, pressures to and destruction of traditional ways of life and practices, and loss of identity and culture."



REPUBLIC ACT 8371: THE INDIGENOUS PEOPLES' RIGHTS ACT (IPRA)

Enacted in 1997 to correct historical injustice and to recognize and protect the rights of IPs. Cornerstone of national policy on IPs including in education.

QUOFE



Effective implementation remains a challenge.

OUR JOURNEY: A HISTORY OF DISADVANTAGE & NEGLECT



ACCESS UNDERACHIEVEMENT SCHOOL IS A SCHOOL IS AN VENUE OF EXPERIENCE OF NON-BEING DISCRIMINATION

EDUCATION-RELATED ISSUES

DISCUSSION IS LIMITED TO SURFACE CULTURE

IMPACTS

Difficulty in learning the needed competencies

Loss of respect for one's culture and heritage

Focus on own SUCCESS

Agent of community disunity

Low self-esteem, sense of shame, loss of IP identity

UNDERACHIEVEMENT IN EDUCATION

Low participation, survival and completion rates

Underperform in disciplines involving science and mathematics

Performance in mathematics courses is significantly lower than those of non-IP students

WHY INDIGENIZE?

- Indigenous Peoples have complex, dynamic, relevant and valid knowledge systems;
- Forward the respect for Indigenous Peoples' history and sense of community, worldviews and their right to self-determination.
- Indigenous Peoples' knowledge systems provide an alternative view and understanding of the world.

WHY INDIGENIZE?

- To indigenize is to decolonize!
- Education was both a target and tool of colonialism, destroying and diminishing the validity and legitimacy of indigenous education, while simultaneously replacing it with an "education' complicit with the colonial endeavor (Pihama & Lee Morgan, 2018).

WHY DECOLONIZE?

- Schooling became a vehicle to expedite the colonial civilization agenda through:
 - The individualization of Indigenous Peoples;
 - Destruction of collective understandings.
- "Kill the Indian in him and save the man" Capt. Richard H. Pratt who established the Carlisle School in 1879 – a model used in the Philippines during American colonization.
- Epistemic violence (Spivak, 1985).



DECOLONIZATION as a process of...

- Moving beyond silence;
- Remembrance and reconstruction;
- Reclaiming cultural, economic, social, political and spiritual aspects of indigenous life; and
- Healing and justice.

GOVERNMENT EFFORT

Department Order 62, s. 2011

- Adopting the Indigenous Peoples (IP) Education Policy Framework; one of the Department of Benigno Aquino Jr.
- Long-term goal: remove the barriers for the meaningful participation of IPs "in the different to exercise their rights and duties as Filipino citizens" (D.O. 62).

Education's strategic priorities under then President

levels and spheres of society and empowers them

 Created the Indigenous Peoples Education Office (IPsEO) of the Department of Education (DepED)

GOVERNMENT EFFORT

QUESTIONS OF IPSEO

- Curriculum in the Philippines?
- from?
- Philippines?



• What would an Indigenous Curriculum look like?

• What principles should guide an Indigenous

What experiences are there that we could learn

 What is an appropriate framework that should guide Indigenous Peoples' Education in the

THE 2013 IPSEO PROJECT: FORMULATION **OF AN IP CURRICULUM FRAMEWORK IN BASIC EDUCATION**

The Philippine Response to Indigenous and Muslim Education (PRIME), a program funded by the Australian government, commissinoed the project.

- To support the intent of the National IP Education Policy Framework (DepEd Order No. 62, s. 2011).
- To provide the policy support and guidance for the implementation of a culturally rooted curriculum, specific to schools/learning centers and other learning modalities that serve IP learners/communities.

BEFORE D.O. 62

- A number of initiatives on IP education have been implemented by the Department of Education, civil society groups, IP Organizations (IPOs), and other community-based efforts since the 1970s or earlier. These initiatives vary from formal to nonformal education. Some have succeeded and persisted through the years, but there are also those that failed.
- DepEd recognizes the need "to consolidate these experiences and lessons to formulate a systematic and coherent IP Education Program, which subscribes to a rights-based approach and gives primary importance to the principles of participation, inclusion, and empowerment." (D.O. 62)



THE TEAM

Willy Alangui & Teret De Villa





Ivy Jaro-Amor, Framie Martin, Enika Hernando & Diana Avenido

THE STUDY

Using a consultative and participatory process, the research was done over a period of three (3) months, from November 2012 to January 2013. Sixteen (16) schools participated in the study. These schools were visited...

> To gather information on the experiences in implementing IP education;

To validate existing programs based on documents , reports and earlier studies conducted; To consult with the stakeholders in the areas.

16 PARTNER SCHOOLS

1. Banaue Central School (Banaue, Ifugao)

2.Bayninan Community Learning Center (Kiangan, Ifugao)

3.Kalahan Academy (Kalahan, Nueva Vizcaya)

4.Sentrong Paaralan ng mga Agta (Quezon)

5.Tugdaan Mangyan Center for Learning and

Development (Naujan, Oriental Mindoro)

6.Ambuan Ogbot (Bongabong, Or. Mindoro)

7.Hatubuan School (Bongabong, Or. Mindoro)

8.PAMANA KA (San Jose, Occ. Mindoro)

9.Tending School (Culion, Palawan)

10.ALS Center (Coron, Palawan)

- 11.Talaandig School of Living Traditions (Lantapan, Bukidnon)
- 12.Sta. Cruz Mission School Elementary (Lake Sebu, South Cotabato)

13.Datu Tutukan (Dumingag, Zamboanga Del Sur)

14.Tibi-Tibi Elementary School (Talaingod, Davao Del Norte)

15.SILDAP Community Learning Center (Monkayo,

Compostela Valley)

16.Dibabawon Elementary School (Kapalong, Davao Del Norte)



IP COMMUNITIES

- Ifugao
- Kalahan/Kalanguya
- Agta
- Mangyan
- Tagbuana
- Talaandig
- T'boli
- Subanen
- Ata-Manobo
- Dibabawon



WHAT WE DID





SITE VISITS & CONSULTATIONS

















DIVERSE CONTEXTS



- These sixteen schools with existing IP education were chosen based on a set of criteria that helped capture the widest possible range of experiences: the schools and programs were either public or private initiatives, catering to pure IP or mixed IP and non-IP students.
- Some of the visited schools underwent different types of transition: (1) from non-formal to formal; (2) started as privately managed then turned over to an IP organization; and (3) from privately managed then later turned over to DepEd.
- Geographical representation was also considered, with some schools coming from the mainland (Luzon), and some from island groups.





ASPECTS OF THE FRAMEWORK

Guiding principles and philosophy as reflected in their Vision, Mission & Goals

Content, instructional materials, language, etc.

Process of developing the curriculum

Teaching and learning strategies

Evaluation and assessment



STORIES WE HEARD



GUIDING PRINCIPLES

Education that is appropriate to the culture.

"akma sa kultura"

Education that is rooted in the culture.

"naka-ugat sa kultura"

PURPOSE OF EDUCATION

- Means of preservation and revitalization of cultural heritage and identity;
- Response to discrimination;
- Build self-esteem and self-concept;
- Way towards self-reliance, and being able to engage the bigger society; and
- Means for community service and defense of ancestral domain

The curriculum should be able to respond to these community aspirations!

CURRICULUM TYPOLOGY

TYPOLOGY

IP curriculum

Indigenized curriculum

Integration in the curriculum

Addition of a separate subject on IKS and culture

Insertion of cultural elements in specific subjects

HANDLING OF IKS

Ancestral domain (AD) as foundation/basis of the curriculum; community life informs the curriculum; IP competencies are emphasized more than DepED competencies

Curriculum is strongly linked to community life; equal focus on DepED and IP competencies.

IKS is integrated more comprehensively in all subject areas; Emphasis on DepEd competencies; IP competencies are also given importance.

IKS is treated as a separate subject; focus is on selected IP competencies (mainly indigenous music and dance, beliefs and practices)

Indigenous Knowledge Systems (IKS) are only cited or minimally discussed in relation to DepED topics; cultural elements focus mainly on indigenous music and dance.



TOPICS COVERED

01	INDIGENOUS KNOWLEDGE SYSTEMS, IN
<i>02</i>	LANGUAGE AND OWN SCRIPT
03	HISTORY
<i>04</i>	ISSUES FACING THE IP COMMUNITY
05	ISSUES RELATED TO THE ANCESTRAL DO
06	SUBJECT AREAS

N VARYING DEGREES AND DEPTH

DOMAIN


KEY QUESTION

- The DepED policy statement seeks to "recognize," protect, and promote the rights and welfare of Indigenous Cultural Communities/Indigenous Peoples, as well as equip them with the knowledge and skills needed to face various social realities and challenges" (D.O. 62, s. 2011).
- What type of an IPEd school has greater success in achieving this? What are the factors or elements that will ensure this?

Important factors or elements in IP Education:

- A curriculum that is based on the ancestral domain (taken here to mean not only the physical environment but also includes spiritual, cultural, and traditional practices).
- In other words, the curriculum should be able to address and incorporate the special needs, histories, identities, languages, knowledge, and other aspects of their culture, as well as their social economic and cultural priorities and aspirations (D.O. 62).

Important factors or elements in IP Education:

- Teachers have deep consciousness and understanding of the people's and community's culture and aspirations.
- Active involvement of knowledge holders/cultural bearers/elders in the learning process and in curriculum development.
- Teachers and knowledge holders are involved in the production and revision of instructional materilas.

Important factors or elements in IP Education:

- Strong Indigenous Peoples Organization (IPO) participation in the management of the school;
- Strong collaboration with like-minded organizations such as Non-Government Organizations and church organizations.
- There is continuing research by teachers and students, with knowledge holders as acknowledged experts and resource persons.

We found that the more successful and sustainable schools have the following impacts on their students. They have:

- Deeper understanding of their indigenous culture and identity.
- Bigger sense of purpose on why they need education: articulation of desire to eventually be able to help their communities and help preserve their cultural heritage;
- Deeper sense of and belonging to a community.

us culture and identity. eed education: able to help their ultural heritage; nmunity.

VALIDATION

Two regional validation workshops were held, one for Luzon and the other for Visayas and Mindanao, and a national workshop was held in May 2013, to share key findings and get feedback from schools and communities we visited.

The agreed final IP curriculum framework had the following features:

FEATURES OF AN **IP CURRICULUM FRAMEWORK**

- Is rooted in the ancestral domain and indigenous institutions;
- Embodies the sacredness of transmitting Indigenous Knowledge Systems;
- Revitalizes, regenerates, strengthens, and enriches IKS, indigenous learning systems, and indigenous knowledge;
- Affirms and strengthens IP identity;



FEATURES OF AN IP CURRICULUM FRAMEWORK

- Focuses on cultural competencies, and includes other forms of knowledge, concepts and skills attuned with the needed life-long learning values and life skills for the development and protection of ancestral domains, their culture and the advancement of IP rights and welfare;
- Allow the whole community to discern new concepts that will contribute to the community's cultural integrity while building new relations with the broader society;

FEATURES OF AN IP CURRICULUM FRAMEWORK

- Uses instructional materials and resources that are culture-based and culture-sensitive; and
- Utilizes the whole ancestral domain as a learning space.

FIRST DECADE (2011-2021)

Massive orientation of stakeholders (Heads of schools, superintendents, supervisors, principals, head teachers, teachers, communities and elders, parents, etc.)

- Orientation involved situation of Indigenous Peoples in the Philippines
- Why the need for an IP Education Program
- Each Division created their own curriculum framework based on the National IPED Curriculum Framework
- Trainings and Workshops on contextualization (indigenization and localization)
- Implemented through the IPSEO (Indigenous Peoples Education Office)
- A joint project between the Department of Science and Technology and the Department of Education.

INDIGENIZATION IN SCIENCE and MATHEMATICS INSTRUCTION

Joint project of the Department of Science and Technology (DOST) and the DEPED, in Support of the IP Education Program

Aims:

- Provide experience to teachers in developing culturally relevant lesson plans in science and mathematics;
- Strengthen their confidence to come up with such lesson plans; and
- Develop exemplars of culturally relevant lesson plans

INDIGENIZATION IN SCIENCE and MATHEMATICS INSTRUCTION

Pilot: Focus on Grades 2, 3 & 4

Two Phases:

- Phase 1: Aeta communities (2016-2018): focus on Science
- Phase 2: Bago, Ibaloi and Kankana-ey communities (2020-2022): focus on Mathematics



IMPLEMENTATION

- DOST National Office
- IPsEO
- DEPED Division Offices
- Heads and teachers from participating schools
- Orientation with community, elders, parents
- Training and workshops with teachers with participation from elders

schools rents with participation

PROCESS IN THE DEVELOPMENT OF INDIGENIZED LESSON PLANS

- Identify specific cultural practice to focus on
- Teachers write lesson plans with inputs from elders and community
- Resource persons make comments and suggestions
- Validation of lessons with elders and community; resource persons in attendance
- Process of testing: lesson plan is given to a different teacher to present in actual class, with elders and resource persons (and team in attendance)
- Finalize lesson plans

CURRICULUM WEB

- Expressed fears by the teachers: Familiarity with the culture; and how to contextualize or indigenize.
- Starting point: Curriculum Web
 - Enrichment of the Education Programs in the Cordillera Administrative Region through the Incorporation of Usable Indigenous Knowledge in the Formal and Non-Formal Curricula (2001 Project)
 - For example: Viewing the rice terracing practice: •
 - as an integrated system (muyong, irrigation and water management, stonewalling, rice terraces; process of sowing to harvesting); and
 - as a knowledge system (IKSP; and arts and the humanities, science and mathematics, social sciences)

Sample Web for the Integration of Indigenous **Knowledge on Rice Terracing in the Curriculum**

Agham/Kalusugan

•Pagsusuri ng lupa, bato •Paggamit ng teknolohiya sa paghahanda ng lupa •Patubig (irigasyon) •Pataba •Pagsuri ng binhi Soil conservation Biodiversity Pest control •Effects of weather/climate •Scientific basis of beliefs and practices •Herbal medicine

Values Education

- •Conservation of resources
- (human, natural, physical)
- Kasipagan
- Pagpupunyagi
- •Pagtitipid
- •Pagpapahalaga sa tradisyon at
- sariling produkto
- •Pagtutulungan
- •Commitment to the democratic process

Rice Terracing

Matematika

•Anyo, hugis at slope ng lupa •Measurement •Katutubong kaalaman sa geometry •Angles •Agricultural cycle •Rhythm (human kinetics) •Pagsukat ng land area

T.H.E.

•Proseso ng pagtatanim •Paggamit ng teknolohiya Soil conservation Pest Control Visual sense Safety

P.E.H.M

•Herbal medicine •Safety in rituals.

Araling Panlipunan

- •Uri ng agrikultura
- •Farming practices
- Labor utilization (role of women)
- •Diversity in practice
- •Bayanihan (ub-bu)
- •Role of men, women and children
- •Customary laws
- •Preservation of positive beliefs and practices
- Land ownership
- •Conflict resolution

•Physical fitness

•Songs and dances Instruments used

Sining Komunikasyon

- •Stories, poems, legends
- •Beliefs, practices

•Rituals

- Pagpapaliwanag
- Paglalarawan
- •Pangangatwiran
- •Paglalagom / pagbubuo
- •Paglalahad

Science 1-Matenialr 2. Predicting 3. Food Chain 4. Energy 5. Chemical Physical Char 6. Seasons

Math 1 Volume 2 Ratio and proportion 3 Measurements 4 Division 5 Set 6 Estimation 7 Simple probability 8 Area 9 Circumference 10 Problem solving 11 Time 2 Fractions Communication Arts 1. Sentences 2. Sequencing events 3. Cause-effect 4. Predicting Dutcomes 5. Stories G. Adjectives in senies 7. Verbs and adverts 8. Following directions 9. Comparisand Contrast

BEGNAS

MAPEH - Songs and dances 2. Instruments 3. Rhythm 4. Designs 5. Health 6. Texture

AP I-Kaugalian 2-Tradisyunal na pagpapa halaga 3-Kultura 4-Mamamo yan 5-Tungkulin 6-Pagdiriviang 7-Kasubtan

EPP 1-Paghahayupan 2. Pagluluto 3 Pag-imbak 4. Pogdudulot ng pogkain 5 Paghahalaman 7. Imbentario ng ponincio 8. Wastong kogamitan 9. Kasuotan 10. Pogdadalaga al pagbibinata EsP 1-Sharing 2. Cooperation 3. Respect for elders. Culture 4. Obedience 5-Inoyan 6- KOWNON 7. Sense of responsibil ESP





Aeta Communities (2017-2018)

Indigenization of Science Education



Aeta Communities (2017-2018)













Indong Tacia shows students the Aeta way of filtering dirt from the community's only source of water using bamboos and leaves of particular plants. She also points out some medicinal plants to students.

Phase 2: Bago & Kankana-ey Communities Focus on Mathematics

- 6 Elementary Schools
- 2 Provinces/Divisions (La Union and Ilocos Sur)
- Trainings and workshops started in February & April 2021
- Development of lessons: May September 2021
- Validation of lessons and revisions: October 2021 January 2022 •
- Testing: March 2022 •
- Finalization: April July 2022 ullet



Phase 2: Bago & Kankana-ey Communities Focus on Mathematics

- Some Math topics covered:

 Basic operations
 Fractions
 Probability
 Step counting
 Geometry: Areas and Perimeters
 Geometry: Shapes
- Some cultural practices covered Weaving
 Farming
 Sharing harvest
 Making Scarecrows
 Traditional practice of catching fish in the river
 Practice of collective work/shared work
 Wedding
 Building houses





ETHNOMATHEMATICAL CURRICULUM MODEL

(ADAM, 2006; MODIFIED MODEL BY ALANGUI, 2018)





Developing Math Lessons: Some Examples

Harvesting Cassava & Catching Fish (Pag-aani ng Kamoteng Kahoy at Paghuli ng Isda)

Students' world – activities in their culture	Description of the activity; practices, beliefs, knowledge and skills needed in the conduct of the activity	Mga pamamaraa kahoy at paghul paniniwala; pagk gamit at panin (Different ways to fish; beliefs & pr materials, beliefs;
Thinking mathematically	Qualitative, relational and spatial concepts in the activity	Habang dumadam marami ang mahu cracks in the soil n dumadami ang tu huling isda at kapa ilog, mas maramin water in the river, fish in the river)
Conventional Math	Variation (direct and inverse)	Pagpapahalaga: I ang variation? nararanasan? (W variation? When community life? Pagsasanay (Evalue

an ng pag-ani ng kamoteng ili ng isda; mga gamit; mga gkakaiba-iba ng pamamaran, niwala; pagkakapare-pareho. to harvest cassava & to catch practices; differences in ways, ; similarities)

mi ang bitak ng lupa, mas nuhukay na kamote (More means more cassava); Habang ubig sa ilog, kumukonti ang oag kaunti lang ang tubig sa ing nahuhuli (Heavy volume of ; less fish; Less water, more

Bakit kailangang matutunan Saan saan eto nakikita o Vhy is it important to learn ere else is this used in

uation)

Developing Math Lessons: Some Examples

STONE WALLING (Menkabiti/mentupeng)

Students' world – activities in their culture	Description of the activity; practices, beliefs, knowledge and skills needed in the conduct of the activity	Activities related walls; indigenous estimating.
Thinking mathematically	Qualitative, relational and spatial concepts in the activity	*Height of stone height? How do w *Inclination: How inclination? How d *Area of paddy: H the rice paddy? W important? What of stone wall and a
Conventional Math	Lengths and measurements; slope, area	Pagpapahalaga: W about measureme length, slope, area Pagsasanay (Evalua

to the construction of stone is ways of measuring and

wall: How do decide on the ve measure?

do we decide on the angle of do we measure inclination? How do we measure area of Why is area of the rice paddy t is the relationship of height area?

Why is it important to learn ents? Where else do we use a?

uation)







Building a traditional window





Teaching students how to fish in the river



Indigenous dance and music using gongs and drums (*solibao*)



The PAMANA KA Experience



- sa Kulturang Aalagaan Mindoro

• Paaralang Mangyan na Angkop (PAMANA KA) is a school for the Mangyan in San Jose, Occidental

• Supports students from all the seven (7) Mangyan groups Occidental Mindoro – Hanunuo, Gubatnon, Rataganon, Buhid, Taobuid, Alangan, Iraya.

Brief History



- •
- ulletorganisation.

Established in 1999 by the Franciscan Missionaries of Mary (FMM); since then, it has made education accessible to Mangyan children.

Response to a request by Pantribong Samahan ng Kanlurang Mindoro (PASAKAMI), a Mangyan

Impact

PAMANA KA "has moved the Mangyan from the margins to the center. It has contributed to the rewriting of the Mangyan story – from being discriminated and set aside, now recognized, acclaimed, and given honor."







PAMANA KA Danlog, San Jose, Occidental Mindoro





PAMANA KA TRAINING CENTER San Jose, Occidental Mindoro













Initial Insights on the Role of Elders and Knowledge Holders

Impact on Teachers

Collaboration with the elders builds confidence on the teachers; For IP teachers, they are also (re)learning their own culture; Helps them break away from traditional ways of teaching; Develops understanding about IP issues.

Impact on Students

Participates more in activities;

Generally, more comfortable with the elders and are not afraid to ask questions; Exposure to new ways of learning - "more fun"; More confident in showing what they already know. Understanding of their issues as members of indigenous groups

Initial Insights on the Role of Elders and Knowledge Holders

Impact on Elders and Knowledge Holders

Changing view about education.

Gives them a new sense of purpose: *Kuna mi nu awan ti interasado – I thought they are not interested Adda pay gayam serbik – I feel like I still have value Adda pay balor ti kaamuan - I feel my knowledge is still important*



Some Insights on the IPEd Program in the Philippines

- Policy support to ensure the implementation of the Indigenous Peoples Education Program in the Philippines (DO 62, IPsEO);
 IP Curriculum Framework that was formulated through a consultative
- IP Curriculum Framework that was formulated t process;
- Community-involvement in the implementation of the program;
- Continuous effort at transforming perceptions and understanding about the importance of indigenous education;
- Continuous capacity and capability training for teachers and facilitators;
- Role of elders and knowledge holders, provision of support for those involved in IP education
- Culturally relevant mathematics education can only succeed within the context of a broader and clear IP education program

- of the program; Ind understanding about
- teachers and facilitators; n of support for those

ASPIRATIONS

MITHIIN/MISYON

Palakasin ang mga kasalukuyang kaalaman at makalikha ng malakas at balanseng akses sa impormasyon sa pamamagitan ng sistema ng Edukasyon na akma sa kultura at nagbibigay sa mga tagbanua ng kakayahan para pangibabawin at protektahan ang kanilang mga karapatan at paghusayin ang kanilang iba-ibang kagalingan habang nagtataguyod ng sustenableng paggamit ng likas yaman at malalim na kaalaman sa ekosistema ng Calamian bilang siya mismong paaralan, na may pagsasa alang-alang sa kanilang kostumbre, tradisyon at paniniwala gaya sa kanilang IKPs, at katutubong mga institusyon. ASPIRATIONS/MISSION Strengthen the current knowledge and create strong and balanced access of information through an education that is appropriate to our culture, one that provides the Tagbanua the capacity to secure and protect their rights, and enhance their various knowledge while engaging in a sustainable use of the natural environment, with deep understanding of the Calamian ecosystem, it being the site of knowledge, and in consideration of our customs, traditions and beliefs, like our Indigenous Knowledge and Practices, and indigenous institutions.

MISSION AND AIMS

Provide a sustainable and quality education that is practical and appropriate to the culture for the development of the capabilities and capacities of the Tagbanua. This includes **the ability to become leaders who can transcend personal interests and who believe in collective action in securing their future**, within the framework of vibrant indigenous seas and lands, and indigenous culture.

MISYON at LAYUNIN

Magbigay ng praktikal akma sa kultura at may kalidad na sustenableng edukasyon para sa pagpapaunlad ng kapabilidad at kapasidad ng mga tagbanua, kasama ang kakayanan sa pamumuno at pagpapangibabaw ng pansariling tahakin, para sa kolektibong paghawak sa kanilang hinaharap, sa konteksto ng likas na masaganang katutubong karagatan at lupain, at ng kanilang katutubong kultura.

ASPIRATIONS

VISION

" An alternative education that is liberating, uplifting the Mangyan condition and bringing about the formation of a Mangyan who is rooted in and developed by his own culture and indigenous wisdom; who will serve the good and the interest of the Mangyan, and who has the capability to shape his own destiny."

VISION

An alternative education that is liberating, uplifting the Mangyan condition and bringing about the formation of a Mangyan who is rooted in and developed by his own culture and indigenous wisdom; who will serve the good and the interest of the Mangyan, and who has the capability to shape his own destiny.

Into the 2nd Decade (2022-2032)

What are the concrete impacts on IP aspirations? What are and aren't we doing correctly in the context of Philippine realities?



Into the 2nd Decade (2022-2032)

How will a math classroom in the context of IP education help realize these aspirations?



Volunteer Math and Science Teacher Alternative Learning Center for Agricultural and Livelihood Development (ALCADEV), a community-led school for Lumads in the Caraga region facing threats from the government forces

● IN THE KNOW **Chad Errol Booc** Instructor, Lumad Bakwit School

EDUCATION

BS Computer Science, cum laude (2016) University of the Philippines Diliman

His thesis, the **PsychUP mobile application** for the UP Manila psychosocial wellness program was adopted by the university and recognized internationally in Greece and Japan

VOLUNTEER WORK

He has been publicly posting on his social media about the **attacks on Lumad** communities, which has led him to be red-tagged by the National Task Force to **End Local Communist Armed Conflict** (NTF-ELCAC)

Booc is part of the 26th petition of indigenous people against the anti-terror law in the Supreme Court

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MATAGO-TAGO TAKO AM-IN! AGYAMANAK! MARAMING SALAMAT! THANK YOU!

