



**PANGIPAPHOD HI NAHAMAD  
NAN NABANOBANONG AN  
PAYON DI IMMIPUGGO (IRT)  
UMAT HINAN DAYYUKUNG/  
NAH-KUNG AN SATOYAMA**

**BOOK**  
**1**





# Youth Capacity Building and Exchange Program Towards Sustainable Development and Conservation of Ifugao Rice Terraces: #Y4IRT Tawali

**Series Authors:** Inocencio E. Buot, Jr., Ph.D., Consuelo D. Habito, Ph.D, Marissa P. Bulong, Ph.D., Mark Anthony F. Rabena, Thaddeus P. Lawas, Ph.D., Elpidio Basilio, Jr., Ph.D., Romeo A. Gomez, Jr., Ph.D., Melanie S. Subilla, Aurora V. Lacaste, Francis Mark Dioscoro R. Fellizar, Eulalie D. Dulnuan, Joane V. Serrano, Ph.D., Sherry B. Marasigan, Ph.D. & Martina B. Labhat, Ph.D.

**Series Translators:** Florentina D. Dulnuan, Emilia B. Manglib, Julian P. Manglib & Josephine G. Pataueg

Faculty of Management and Development Studies  
University of the Philippines Open University



Mayoyao Rice Terraces



Batad Rice Terraces



Nagacadan Rice Terraces



Banaue Rice Terraces



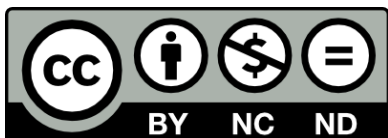
Hungduan Rice Terraces

## **Youth Capacity Building and Exchange Program Towards Sustainable Development and Conservation of Ifugao Rice Terraces: #Y4IRT Tuwali**

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## FOREWORD

This book is part of the Ifugao Rice Terraces as Satoyama Landscape Book Series and is in support of the two UN 2015 Sustainable Development Goals (SDG):

- SDG 13 the urgent action to combat climate change and its impacts; and
- SDG 15 which is to protect, restore and promote sustainable use of terrestrial ecosystems, forest management, combat desertification, and halt biodiversity loss and reverse land degradation.

Satoyama, a Japanese term that has taken global significance, is a framework that highlights human-nature interaction. In a satoyama landscape, human-nature interaction is expected to be at its best because there is harmony, there is no destruction, there is sustainability and there is resiliency (Buot, 2017). This interaction is evident in the daily living of people relying heavily on the goods and services provided by the environment. Studying and understanding the individual components of communities and determining their connections and relationships with their environment are important for satoyama initiatives to operate synergistically and sustainably. An evidence-based presentation of connections and relationships will allow stakeholders to acquire a broader perspective on the “domino effect” of their actions on the landscape.

With this definition, the Ifugao Rice Terraces is a clear example of a Satoyama landscape with its inherent human-nature interactions and the various social, political, cultural, and economic issues present in the world heritage site.

**#Y4IRT Team**





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# BOOK 1

# PANGIPAPHOD HI NAHAMAD NAN NABANOBANONG AN PAYON DI IMMIPUGGO (IRT) NAH-KUNG AN SATOYAMA

**Book Authors:** Inocencio E. Buot, Jr., Ph.D., Consuelo D.I. Habito, Ph.D. & Marissa P. Bulong, Ph.D.

**Translators:** Florentina D. Dulnuan, Emilia B. Manglib & (Lagawe-Tuwali) Julian P. Manglib

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**Kaggibuwan tuwen book ya kabalinaan yu an:**

1. Maibaga yu nan kaimportanten di Satoyama;
2. Aton an maphod, nan wad amo tuwali an umat hi paki'ki'atan ya paki'ki'ayan hi iban tagu tun boble;
3. Ini-la'on nan makalkalli an problema (issues and concern) itun IRT Satoyama ya;
4. Punhuhumanganan nan kahapulan ta waday maphod hi pangi-unnudan ya pangi-tib-an di matanudan an mangipaphod inan IRT Satoyama.



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# BOOK 1

# PANGIPAPHOD HI NAHAMAD NAN NABANOBANONG AN PAYON DI IMMIPUGGO (IRT) NAH-KUNG AN SATOYAMA

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## CHAPTER 1: NABANOBANONG AN PAPAYON DI IMMIPUGGO MIPAH-AT HI SATOYAMA LANDSCAPE



### OBJECTIVES

Hi kagibuwan tuwen maadal ya kabalinan yu an:

1. Maibaga yu mo nan kaimportanten di Satoyama;
2. Mainnilaan nu ngay muyung, payo, wa-el, ya nan boblen di IRT an ibban di Satoyama;
3. Mabalín an kapyon yu ha mapan di udum an Satoyama landscape hitud Pilipinas;
4. Mipainnila hi am-in an kabobboble tun luta nan IRT bilang Satoyama Landscape.

Hello! Haon hi Bugan an da'mi i Wigan. Apngahon dah'yu ituwen aton mi an chapter. Baddangan dah'yu an mun-adal etuwen maadal ya hana ot ta pohdod yu tuwen adalon. Nan mamangulun adalon tau ya mipa-innila dah'yu nan kaimportanten tun Satoyama Landscape. Ipainnila mi nan Nabanobanong an Papayon di Immipuggo mipah-at hi Satoyama Landscape, maibagbaga nan aton an maphod, an wad amo tuwali an umat hi paki'ki'atan ya paki'ki'ayan hi iban tagu tun boble an maka-apektar hinan IRT, Nan importanten pinbibiyagan ya pangal-an hi kahapulan ta waday maphod hi pangi-unnudan ya pangitib-an di matanudan an mangipaphod inan IRT Satoyama Landscape. Ngem ta ahi danae, mamangulu ni'an an inilaon tau un ngadan di Satoyama?



Hi! Haon hi Wigan. Ya innila yu nu ngandiyey Satoyama? Nan Satoyama eya hapit di Hapon an duway kaliyo na: "Sato" ya nan bale/abung/nunhituwan ya nan nunbobleyan, nan "Yama" ya nan duduntug/mamuyung. Hiya nan Satoyama ya nunboblayan/nunhituwan di tatagu an nunlinikkodan di muyung ya kaka-iw.

***Aduwani ten na-innila-an tau mo nan Satoyama, ume tau nah mitun'ud an aton tau.***



Preserving Ifugao Culture, One Class at a Time  
<https://bit.ly/2QkiGep>

***Ten naggibbun tinigo yu nan video, hea an ohan mangilog an Immipuggo, on mabalin mon tigon nan IRT an ohan Satoyama Landscape? Nu om? Ume tau inan mihaynod an adal.***

***Aduwani ya etau moh nan mamangulu an aton. On nakasagana ayu? Ot ilugi tau!***

### **Mamangulu an Adalon (Learning Activity 1)**

Ilugi tau an bidbidon nan wahtu hinan papel an "Satoyama Landscape in the Philippines" Ipatigo na an nan Satoyama ya waday tulu an impoltante an ibbana:

- 1) nan pangipaptok di tatagu nan mumuyung,
- 2) nan punliyakan/punhabalan,
- 3) ya nan nunboblaysan. Datuwen tulu ya nawada an maphod di niphodanan da. (Buot and Osumi 2004)

Ipatnayu an innilaon nu ngadan di Satoyama ya ngadan di udum an nunhihinatkon an landscape di Pilipinas. Mabalin yu bon tigon hinan power point presentation an ibban datuwe. Kaliyon da Buot ya hi Osumi (2004), nan satoyama landscape hitu Pilipinas ya tulu di niatana: 1) Satoyama an naki'at di papayo, 2) Satoyama an naki'at di papage ya udum an nitanom, 3) Satoyama an nid-um hi habal di gahhilang. Hay mid-um, tigon yu nan Figure 3 nah da'ul na ta tigon yu nu ngadan di udum pay an ibban di Ifugao Rice Terraces.

Ot inila tau mo nadan Satoyama Landscapes hitun nunboblaysan taun Pilipinas, ya nan ka'at nan nabano-banong an payo taun Immipuggo. Ta ahi tau ituluy nan aton tau, gibbuwon tau nih'an nan mamangulun aton tau. Hongbatan yu datuwe.

1. I-drawing yu ono lahlatuwon yu nu ngadan nan punnomnom yu inan Satoyama landscape. Ngadanan yu ustu. Ngay punnomnom yu nu tigon yu nan kinapya yu wenna nan latlatu?



2. On abuluton yu an nan nabanobanong an payo (IRT) ya ohan Satoyama landscape an ibagbagan nan papel da Buot I Osumi (2004)? Un abuluton yu, nape?, ngay punnomnom yu eda tuwen kahapulan ta mid'um inan muyung, boble ya nan punliayakan. Ngadan pay di mid'um inan Satoyama landscape?

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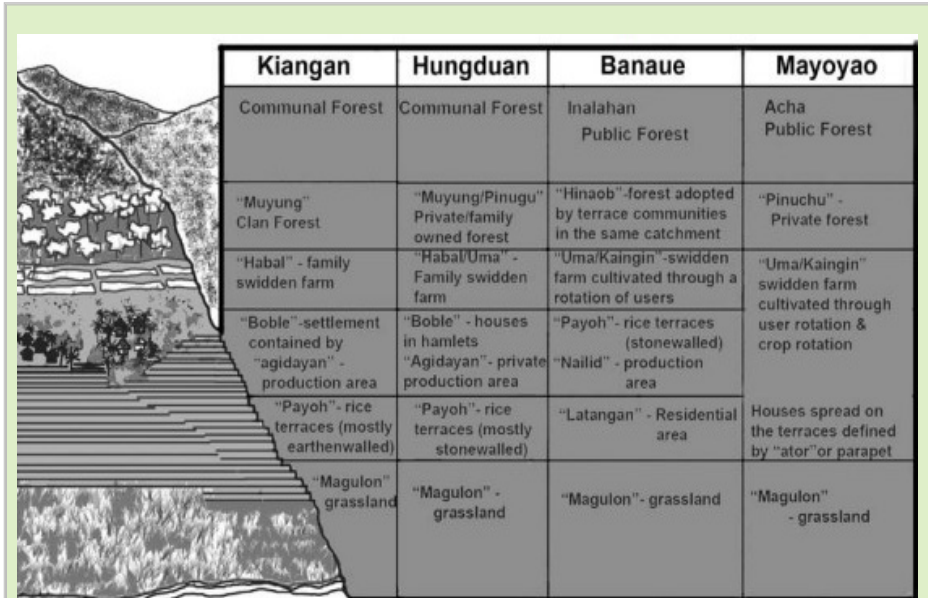


Figure 1. Variations of land use and indigenous zoning system in the IRT World Heritage Site. Reprinted from Impact: The Effect of Tourism on Culture and the Environment in Asia and the Pacific: Sustainable Tourism and the Preservation of the World Heritage Site of the Ifugao Rice Terraces of the Philippines (p. 28), by Save the Ifugao Terraces Movement SITMO, 2008, Bangkok, Thailand: UNESCO. Copyright 2008 by UNESCO.

***Om! Dakol di maad-adal tau hiya man? Inila tau mo an nan payo tau (IRT) an mipah-at hi Satoyama. Ituluy tau mo nan mihaynod an mikadwan ma-adal. (Activity 2)***

**Mikadwan Adalon (Learning Activity 2)**

1. Ngadan di pangali yu nan satoyama inan hapit yu. Nu maid ya, ngadan di mabalin an pungngadan yu? Mabalin an pun hu-upon yu ha duwan hapit ono kali. Nape?

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2. Ngadanon yuy udum an mitanom inan hinagon yun boble onu udum an nunboblasyon yu an nun ingngo inan payon nabanobanong. (IRT)

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***Nagibbu an imbaga da nan dakol an kaat di satoyama hitun numboblasyon an Pilipinas, maphod bo an inilaon nan kapkaphodan tuwen Satoyama an kalyon di udum an boble gapu nun bigbigan da inan Satoyama Landscapes.***

***Ume tau inan maudi an maadal.***

### **Mikatlu an Adalon (Learning Activity 3)**

1. Mahapul an bigbigon di ka-importanten di Satoyama kat hinan IRT? Ibagam nan hongbat mo.

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2. On inila yu an waday oggan da pun bigbigan inan nabanobanong an payo hitud Ipugaw (IRT) ya nan udum an maphod an boble? Ngadanon yu dadiye.

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3. Ngadan di maat nan ohan mangilog an Immipuggo ta punnanongo na punbigbig na hinan satoyama landscape? Itudok mu ha lima.

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# BOOK 1

## PANGIPAPHOD HI NAHAMAD NAN NABANOBANONG AN PAYON DI IMMIPUGGO (IRT) NAH-KUNG AN SATOYAMA

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CHAPTER 2: NAN KA-IMMANUNGAN NAN NUNLINIKKODAN HI NUNHITUWAN YA  
PAKI'KI'AYAN/PAKI'KI'-ATAN HI IBBAN TAGU INAN IRT SATOYAMA LANDSCAPE



### OBJECTIVES

Kagibbuwan tuwen chapter, ekspektalon dahyu an:

1. Maibaga nan punboboddangan di bimoble (community), nan payo (rice field), nan habal (swidden farm), ya nan mumuyung;
2. Ipatibo nan pangat/eyye an at-atton (practices) hinan IRT:
  - Nan nitaguwana (Life cycle)
  - Nan aton an puntanom hi page ingganah nan punbotokan/pun-apitan (Rice production practices)
  - Nan aton hinan punhabalan (Kaingin system)
  - Nan aton hinan punlinihan (Regular cleaning)
3. Innilaon di kitultulungan di ka'kaat di tatagu aduwani ya nan punboddangan da hi IRT.



Wada tau mo hinan mikadwa an maadal. Hay mamangulu ya etau reviewon nan udum an nagibbun naadal tau. Nan IRT Satoyama Landscape an niddum di Paki'ki-ayan/Pakikiatan hi ibban tagu (social) ya niddum di nunlinikkodan hi nunhituwan (natural environment)? Ngadan datuwe an nunlinikkodan di nunhituwan (natural environment)?



Nan nunlinikkodan an mumuyung, papayo, ya duduntug



Nan punliyakan/punhabalan/puntanoman hi ka-iw



Nan wang-wang ya munpuy-uk an liting (falls)

**Hitun lutan kawadan ya dakol di nunhihinnatkon an ammayun wadah pota-al (wildlife species) ya pangalan hi kahapulan an hiyay kitaguan.**

**Nan nunlinikkodan inan nunboblayan an nih-up inan papayon di Immipuggo.**



Datuwen bimmoble ya makitagu da gapu nan kahapulan an maala hinan nunlinikkodan. Ya nan tatagu mo di mangipaptok hinan punnanongan (conservation) ya kiphodan nan IRT ya nan Pangat /eyye da.

Nan Satoyama Landscape, an IRT. Mahapul an nan nunboblayan ya nan tatagu an bimmoble idiyen nunboblayan ya munbabaddang da inan maphod an pangat, ya impoltante an tigon nu ngadan nan mama'at te hiyay pangitig-an hi pangi-unnudan hinan punnanong hinan nunliyakan/nunlinikkodan.



***Aduwani, ume tau hinan mamangulu an adalon.***

**Topic 1: Hay Kinakal-ot (Dynamics) nan nainlutaan an nunlinikkodan di (natural environment) di IRT**

**Mikap-at an Adalon (Learning Activity 4)**

Nan mamangulu ya tigon tau hituwen video di rice culture.



Ifugao Traditional Rice Production  
<https://bit.ly/32h819W>

Aduwani, ipadas yu an i-drawing adi e ya mangala ayu lahlatun di bimoble (community), nan payo (ricé field), nan habal (swidden farm) ya nan muyung (forest) an mangipatigo hi eda pun-oohhaan.

Nan mihaynod ya bidbidon yu nan pangitigan (references) hinad da'ul mipanggep hinan pangipaptok/pangiphod hinan mumuyung (Forest Management):

- Muyong forest of Ifugao: Assisted natural regeneration in traditional forest management (Butic & Ngildo, 2003)
- The Ifugao muyong: Sustaining water, culture, and life (Serrano & Cadaweng, 2005)
- The socio-political structure that regulates the Ifugao forest maintenance (Jang & Salcedo, 2013)

### Nan impoltante an nomnomon mipanggep hinan papel hi ngatuna/baktu:

- Nan papel ya kalkalyona di ngay aton di Immipuggo an mangiphod (develop) nan nahinnahinnatkon (unique) ya pangipaptok hinan makalin muyung.
- Waday tulu an klasen di muyung; ya datuwe nan; natanoman hi ka-iw ot ipaboltan da hinan tinanudan da; nan paka-iphod an punhabalan; ya nan nabayag an muyung an eda nanga-nanga-iwan ot ahida kalyon di muyung da.
- Nan muyung ya hiyay pangal'an dah itungu, pangapya bale, ya kalpuhan di liting an pundanum hinan papayo.
- Nan muyung ya matigo hi nunhihinnatkon an ki-atana; umat inan pangipaptok hi Muyung (Forest management Strategy); Pangal'an hi maphod an danum/liting (Watershed Rehabilitation Technique); Ka'at an punliyak (Farming System); di-e ya nadan ma'ma'at an pangipaphod hi nunlinikkodan (assisted natural regeneration strategy).
- Nan ANR Strategies an ma-ma'at hi muyung ya nadan: Agroforestry ya nan dakkol an pun-apitan (multiple cropping), an nan puntanoman di Immipuggo hi kaka-iw ya nan nunhihinatkon an mitanom ta nan umongngalan dan namin ta adi miwalong di pangalan hi makan ya kahapulan; Puntanoman hi dakol an ka-iw ta kiphodan di kitaguwan; Nahamad an pangipaptok ya pangiphod (silvicultural) hi mumuyung umat hi punhikwatan (Thinning), punlinih (cleaning), ya panga-an hi udum an hapang di ka-iw ta maphod di ena umongolan (pruning), ya salvage cutting, an ma'at ta maphod di-e na umong-ngalan; ya nan maphod an aton an mangala ya ki-usaran di ka-iw.
- Nan muyung di pangalan nan munpa-ot hi ka-iw an eda pa-oton te hinan muyung di panig-an hinan kaka-iw an maphod an paoton da.
- Nan muyung ya kahaadan nan liting an mal'pu udan an mun-ul-ulle an ume hinan irrigation di papayo, nan udum eya ume hinan wal/wangwang wenu hinan Magat reservoir.
- Mi-adi an munlongoh/munputul/munpukan hi kaka-iw hinan muyung nu maid ha permission, nan tagu en nunlongo ya pakanon da hi nunboblalan, handi en nadne ya mabalin dan patayon nan tagu an munlongo hi ka-iw nu adi na ibaga hinan ud bagi. Mabalin an ume mamating (gather dead branches) an mitungu taon hi adi da ibaga hinan ud muyung.

***Aduwani an nagibbu tau tuwe, ume tau nan mihaynod an maadal.***

***Topic 2: Nan Pangat/Eyye Di Paki'ki'atan Hi Ibban (Social practices)  
Bimmoble hinan IRT***

**Mika-lima an Adalon (Learning Activity 5)**

Ituwen maadal, damagon yu inadan lallakay ya babbaket weno hinan a-ammod yu nan Ka'at (practices) an at-atton (performed) nu wada hinan naitudok hinad da'ul (piliyon yu ha duwa nan opat an punpiliyan) ya itudok yu nan Ka'ka'at (practices) ya ibaga yu nu ma-ma'at pay datuwe weno adi mo mama'at datuwe aduwani.

Group 1: Ka'at di biyag hinan Boble (Life Cycle in the Community)

Group 2: Nan punliyakan hi papayo (Rice Production Practices in the Rice fields)

Group 3: Nan aton an munhabal (Kaingin system in the Swidden Farm)

Group 4: Nan e punlinihan hinan inalahan/muyung (Regular Cleaning in the Forest)

Nape ta waday udum an eyye/pangat an adi da at-aton aduwani?

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***On ginibbu yu? Ume tau mo hinan mikatlu an maadal.***

***Topic 3: Nan ma'ma-at aduwani hi Ka'ka-at di tagu ya nan ma'ma'at hinan IRT***

### Mikan-om an Adalon (Learning Activity 6)

Ituwen maadal, e tau tigon di kaimpoltante nan ma'ma-at aduwani nan ka'ka-at di tatagu an wada nan IRT. Mabalín an aton yu tuwe inan iibbam ya mabalín mun damagon hinan aammod yu ta baddangan da'yu an munhongbat ituwen table hi da'ul na. Mangidat ayu hi tulu an ma-ma'at.

Mangsat aju tulu an directions.

Nan ma'ma'at aduwani inan ka'ka-at di tagu hi pun-oh-ohha-an da hi IRT (Current directions of the human-nature interaction at the IRT)	Nan mabalín an ma'at ta mahongbatan datuwen ma'ma-at (Things to be done to address these directions)	Nan maibaga ta manomnom/mainnilaan/matigo datuwe an ma'ma'at (Recommendations to realize these directions)

***Hituwe ya abu ni'an ituwen chapter, ahi tau muntitiggawan hinan mihaynod!***



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# BOOK 1

## PANGIPAPHOD HI NAHAMAD NAN NABANOBANONG AN PAYON DI IMMIPUGGO (IRT) NAH-KUNG AN SATOYAMA

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### CHAPTER 3: NAN CHALLENGES DI NABANOBANONG AN PAPAYON DI IMMIPUGGO YA HAY MAPMAPHOD AN SOLUSYON NA



#### OBJECTIVES

Hi kagibbuwan tuwen chapter ya maadal di:

1. Mainnilaan nu ngadan datuwe an polobleman etau nihaadan (environment) an niddum di pangat/eyye ya pagen di papayo;
2. Maka'iphod hi aton ta masolusyonan nadan poloblema an malpu hi paki'ki'atan (social), political, pangat/eyye (cultural), ya nan pangalan hi kitaguan (economic) hinan IRT;
3. Mangapya/mangiphod hi planu an para hinan nunboblayan ya nan aton para hinan IRT.

Apngahon dahyu ituwen mikatlun pun'adalan!  
Inadal tau mo nan Satoyama Landscape, ngadan  
da nan impoltante an ibba na (components) ya  
nape ta nan IRT ya oha an Satoyama?

Nan IRT ya kinapyan di Immipuggo an nausal di  
Pangat ya Eyye da an nangapya nan duduntug  
di Cordillera (SITMO 2008). Nan punnanongan  
ya kahapulan di immanung an pangat an malpu  
hinan nunboblayan, inan gobelnu ya hitun boble  
tau ya annamin di kabob-boble.



Dakol di naibagbaga an issue ya  
poloblema hinan punnanongan di IRT.  
Hidin 1994, wada han onom di tawon  
an plano an nakapya an punnanongan  
nan IRT (OIDCI and PROSI, 1994).  
Ituwen master plan nadan naibaga  
an poloblema ya immanung inggana  
aduwani. Datuwen naibaga an  
poloblema ya:

**A. Nan gapu kalpuwan di gode ya kolyog (faults and earthquake)**



Inyo earthquake fault [digital image]. (2016, May 28).  
Photo retrieved from <https://www.flickr.com/photos/39908901@N06/29582264110>.

**B. Nadan kapakiyan ya punkamaidan di muyung ya nan pangalan hi kahapulan**



Deforestation [digital image]. (2016, March 17).  
Photo retrieved from [https://commons.wikimedia.org/wiki/File:Deforestation\\_2074483b.jpg](https://commons.wikimedia.org/wiki/File:Deforestation_2074483b.jpg).

**C. Nan kapakiyan ya nan niwalongan di papayo, adi mipaphod an pundalanan di liting ya ongal di mausal an pih-hun ipabokla**



Unregulated rice paddies in the Hungduan Rice Terraces. Photo by the Youth for Ifugao Rice Terraces Project. Used with permission.

**D. Nan luta an punpapat-tayan (an bagin) di ta-tagu (an inpaboltan di a-ammod da hidin nadne) ya gobelnu.**



Task Force Anti-Apeco (Photographer). (n.d.). Agricultural land conflict [digital image]. Photo retrieved from <https://aurorafreeport.wordpress.com/documentation/#jp-carousel-258>.

**E. Kulang di plano ya mausal hinan tourism; agge napanuh an niphodan di babale ya pungattangan**



Community and commercial settlements in and around Banaue Rice Terraces. Photo by the Youth for Ifugao Rice Terraces Project. Used with permission.

**F. Nan pun-negosyohan hinan pangat/eyye (commercialization of culture)**



Cienca, S. (Photographer). (2005, June). Mumbaki's ritual [digital image].  
Photo retrieved from <https://www.flickr.com/photos/bigberto/924700439>.



Nan mid-um i-datuwe, ya nan dumakolan di munkalakay / munkabaket an munliyak (farmers), ya nan munpunbotan an munpangilog ya poloblema te maid moy munliyak hinan papayo. Nan pangipaptok hi punliyakan ya eyye ya nidependal idatuwen munpangilog te dida nan mihaynod an munliyak / munngunu nan papayo ya diday di mangitultuluy hinan pangat ya eyye an binoltan dah aamod da.

Aduwani, ituwen chapter, paka-innilaon tau nu ngadan datuwen maibagbaga an poloblema weno nan umatan nan nabanobanong an payo taun Ipugaw ya nan kawad-an da aduwanin timpu. Tigon tau ya kapyon tau ha multimedia materials ta ma-awatan tau nu ngadan pay di udum an ka'at da tuwen IRT an panigan di tatagu (social), nan pulitika (political), inan pangat / eyye (cultural), ya nan kitaguwan (economic) an mabalin an hay kapakiyan / kamaidan nan papayon di Immipuggo.



**Topic 1: Potkon nan poloblema hinan nunhituwan/nunbobalayan**

***Tigon tau nan nunboblayan tau ya nan hinaggon tau. On manomnom yu nadan poloblema an nibaga hinan Introduction? Nu manomnom yu, aton yu hituwen mihaynod an ma'at mipanggep idatuwen poloblema an malpu punnomnom yu.***

**Mikapitun Maadal (Learning Activity 7)**

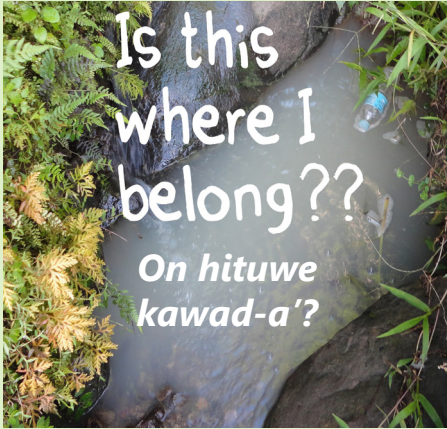
Nan mamangulu ya tigon tau nan video, usalon tau nan nikonektal hitu da'ul na.



Vanishing heritage: Saving the Rice Terraces of the Philippine Cordillera  
<https://bit.ly/31pKzs1>

Aduwani ta ginibbu taun tinigo nan video ya, ume tau hinan mihaynod an maadal.

1. Ipahaw-wang yu nan punnom-nom yu hinan IRT ya ngadan dadiye an polombela hinan papayo ya ngadan di eda nikonektalan ya nan epekto na idahyu ya hinan mangalin tawon.
2. Ekayu mundallanan hinan nunlinikkodan nan IRT ya lahlatuwon yu weno i-video yu nadan poloblema an eka nomnomnomon. Itudok yu hinan puntudokan nu nape ta impoltanten dahyu, ya;
  - a. Kapyon yu ha meme an usalon yu di lahlatu yu ya nan pinhod yu, itigo yu hinad da'ul ta pangi'unnudan yu



b. Weno kapyon yu ha tik-ke an vlog (video blog) an mangipatigo hi ohan poloblema. On nape ta impoltante hituwe poloblema I hea?

Nu hea nan kapitan hinan boble yu, ngadan di atom an mangipainnila ituwen problema? Ngadan di atom ta bumaddang nadan kakagawad mu? Ipatigom nan hongbat mu an mitudok.

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***Ginibbum e tuwen maadal ya ume ago hina-an mihaynod an maadal.***

***Topic 2: Eureka Moment!***

Inbagan nan Wikipedia an nan Eureka (aha moment/eureka moment) ya hituwe ya han pun-awat mu ihan imposible an maawatan an poloblema weno concept, ngem naawatam ot.

Hinan mihaynod an maadal, ya mangidat ah hi aton ta miphod nadan poloblema hinan IRT an nibaga hinan nagibbun adal.

**Mika-walo an Maadal (Learning Activity 8)**

Tigon nan video an grupun di munpangilog an mountaineers ta nu kasanuy inat da ta niphod han poloblema hi Tanay an nal-ngo di dakol an kaka-iw ot maapuyan (deforestation).

## Community Based Charcoal Briquetting Project

TANAY MOUNTAINEERS INC.

TAYO AWARDS



Tanay Mountaineers  
<https://bit.ly/3giVY0Q>

**Study Questions:**

1. Ngadan dadiye an solusyon an nibaga hinan video?

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2. On nan naibaga an poloblema hinan video ya wadah hinan nunboblayan yu? Nu om, Ngadan di udum an aton yu ta miphod nan poloblema hinan nunboblayan yu.

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3. Mausal nan video an pun-unnudan (inspiration), mangidat ayu maphod an punpananong ya pangipaphod hinan poloblema an pinili yu hinan namangulun maadal. Mabalín an irecord yu nan adol yu an kumkumalli hinan poloblema ya nan aton ta miphod hituwe weno kapyon yu ha pangitigan.

***Hituwe nan mikatlu an maadal. Muntitiggohan tau hi chapter 4!***



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# BOOK 1

## PANGIPAPHOD HI NAHAMAD NAN NABANOBANONG AN PAYON DI IMMIPUGGO (IRT) NAH-KUNG AN SATOYAMA

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### CHAPTER 4: NAN IMMANNUNG AN ATON (PRACTICAL) YA NAN NUNHIHINNATKON AN PANGAT (DYNAMIC) AN PANGIPAPTOK HINAN IRT SATOYAMA



Hi kagibbuwan tuwen chapter ya maadal di:

1. Punhuhumangan an nu ngadan nan pangipaphod/pangipaptok (conservation);
2. Ma-ibaga ono mipatigo nan nikonektaran nadan problema hinan IRT ya hay pangipaptok (conservation);
3. Innila-on nu ngadan di pangat nan Immipuggo hinan pangipaptok/pangipaphod (conservation) hinan muyung, payo, ya nan boblen nunhituan;
4. Punhuhumanganan di punbigbig di hin-umiliyan hinan pangipaptok di Immipuggo hinan IRT.

Te mo an wahtu tau hinan maudi an maadal ituwen Book. Hana ot ta dakol di naadal yu hinan nagibbun maadal, te hituwe ya punhuhumanganan tau nu ngadan di aton hi pangipaptok (conservation) ya ngadan di inat nadan aammod ta nipaptok nan papayo tau inggana aduwani, ta nan inadal ya mausal an mangapya punpaptok hi kiphodon nan polobema ya pangiphod/ pangipaptok (conservation), an bumudduwan/ humawwangan di laing di Immipuggo ya uldin di pangat, systems ya pangat.



Wae ta aggeyu inila, nan pangipaptok / pangipaphod (conservation) an pangat hi tumaguwan nan IRT, an ten matigo hinan kad-an di muyung, hinan nabano-banong an papayo tau ya nan nunboblasyon. Hiyan nan pangat/eyyen di Immipuggo an punnanong ya pangipaphod hinan papayo ta pangitig-an di enteron di kabobboble an hiyay panginnilaan da hi Ifugao Rice Terraces. An nangidat hi am-amlong nan inat di a-ammod yu handi, hiya pe?

**Topic 1: Ngadan nan pangipaptok/pangiphod? (What is conservation?)**

*Nan mamangulun adalon ya nu ngadan di pangipaptok/pangiphod (conservation).*

*Hinan Merriam-Webster dictionary ya kalyona an nan pangipaptok/pangiphod (Conservation) ya hituwe nan nahamad an pangipaphod hi ohan banag ta mausal ya ta adi mapaki. Hituwe di pangitigan hinan pangipaptok/pangiphod (Conservation) hinan bale ya nan nunlinikkodan di nunhituwan. Pakan-nomnomon yu an dumatong ayu hinan pun-awat yu hi pangipaptok/pangiphod (conservation) ya mundadaan ayu.*

**Mika-hiyam an Adalon (Learning Activity 9)**

Nan mamangulu, manigo a oha hinan inpaboltan di aammud mun hea. Hituwe ya mabalin an usal hinan punha-angan (kitchenware), mahapul inan bale (tool), lubung/bulwati an na-abol (fabric), nadan gamigam (accessory), ono ngandiye an nipaboltan I hea. Nakatigo a hi oha? Innilaon ta. Hongbatam nan mihaynod an damag?

- Ngadan nan natigom an nipaboltan I hea?
- Ud bagi idiye?
- Daana di niha-adana?
- On ma'mausal hidiye?
- Ngaday kinabalol na (value)?
- Nu maphod pay, ngay inat yun nangipaptok?
- On waday paki na?
- Ngay na'at ta waday paki na?
- Kan-una di napakiyana?
- On mabalin an miphod?

Hinaen ngunut (object) ya binoltan mu. Hinae ya nalpu pay hidin nadne an nabalol ya ipaboltan mo hinan imbabalem ya aap-apum hi pidwana. Nan nangat yun nangipaphod idiye ta inggana nunboboltanan yu ya hidiye di pangat an pangiphod/pangipaptok (conservation) an ma'at ono adi ma'at.

**Mikapulun Maadal (Learning Activity 10)**

Hinan mika duwa an adalon tau, punhumanganan yu inan ibbam nan pangipaptok/pangiphod (conservation) inan nabanobanong an payo taun Immipuggo. Tigon nan damag hinah daul na nu ngaday mabalin an damagom hinan ibbam?

1. Ngaday kalyon yu (own definition) hinan pangipaphod/pangipaptok (conservation)? Ibagam nu nape (discuss your reasons)?
2. Donglom nan ibagan nan ibbam.
3. Mahapul an abuluton (agree) yu inan ibbam nan nunhumanganan yu (own definition) hinan pangipaptok/pangiphod (conservation).
4. Ipainnila yu nan pangibaga (own definition) hinan pangipaptok/pangiphod (conservation) ya haadam hi "hashtag #conservationdefinition."

**Topic 2: Nan naibagbaga ya poloblema hinan IRT an niddum di pangipaphod/pangipaptok (conservation)**

*Ituwen mika-duwa an adalon tau ya etau punhumanganan nadan naibagbaga ya poloblema hi IRT. Nadan naibagbaga ya poloblema hinan papayo ya mainnila-an di nilugiyana ya nape ta nunbalin an poloblema. Ya mainnilaan nadan pangat/eyye taun adi mo mama'at aduwani.*

**Mikapulut'oha an Adalon (Learning Activity 11)**

Nan punnomnom hi ma'ma-at (Situational Analysis): (Outmigration)

Lugiyana tau an bidbidon nan hudhud (story);

Hi Melody Tayaban ya inpasa na nan Board Exam ya mun-am-amlong di pamilya na! Oha an Engineer! Oha an propesyonal an niddum hinan iibba na ad Houston. Undai ya masdaaw nadan pamilya na te pinili na an niddum hi NGO ta munngunu ad Banaue, Ifugao.

"Sayang di dolyal. Sayang nan inadal na hi Engineer, an adi mausal," inbagan nan ohan Anty na. Iniphod Melody an imbaga an nan tuping di papayo (eroding stonewalls) ya kahapulan an maadal ta mibanggad. Nan laing nah hi engineering ya kahapulan, ot nan NGO di ukod hinan kihaadana ya kano na.

Punhumanganan yu hinan ibbam nan mihaynod an punlugiyana an damag:

Ngadan di abulutom (agree) hi Anty na ono hi Melody? Nape?

Nu abulutom hi Anty na, ngadanom ha maphod an kiphodan an midat nu mungunu ta adawwi an boble (overseas)?

- 1.
- 2.
- 3.
- 4.

Ngadan di inilam an midattan hinan maphod an kiphodan (benefit)?

Nu abulutom/om-omam hi Melody, ngadanom ha maphod an ma'at hinan kihaadana hitu ad Ifugao:

- 1.
- 2.
- 3.
- 4.

Ngadan di inilam an midattan hinan maphod an kiphodan (benefit)?

Nu hea hi Melody, Ngadan di atom an ohan pimasa hi Engineer?

**Topic 3: Nan Pangat tau hinan IRT**

*Punhuhumanganan/Punhahapitanan yu nu ngadan pay di udum an pangat di lpugaw ta miphod/mipaptok (conservation) nan muyung, payo ya nan boble.*

**Mikapulut duwan Adalon (Learning Activity 12)**

I-alam i Ulitao (uncle/elder) Damagom/innilaom (interview) i Ulitaom nu ngadan di pangat dan pangipaphod hinan muyung).

Ngay atom (Instruction): Manigo ayu hi nanomnoman an aam-amma/in-inna, ya makihummangan ayu idida mipanggep hi nan pangat/eyyen di lpugaw. Irecord yu. Mabalín yun usalon nadan damag nah da'ul:

- 1) On waday muyung yu? Waday inila yu an muyung an nih-up ituwen kawadan yu?
- 2) Ngadan day wahdi hinan muyung?
- 3) Ngadan nan wada hinan muyung handi an maid ad uwani?
- 4) Ngadan nan wada hinan muyung ad uwani an ma'id handi?
- 5) Ngadan di ohan pangat an bumaddang ta munnanong nan muyung?
- 6) On ma'ma-at pay aduwani?
- 7) Nu adi, nape ta adi ma'at aduwani?
- 8) Ngan di itugun mu mipanggep inan muyung?

Inan Ibbam, i-visualize yu nan muyung an inbagan Ulitao yu, i-drawing yu ha poster an mangipatigo hinan pangipapatok hi muyung. Nan inrecord yu ya tumulung idayu an manigo hi hongbat an inbagan ulitao yu.

**Topic 4: Pangimatunan hinan IRT**

*Nan pangat an mangipaphod (conservation) hinan papayo an nangapya hi ohan landscape an binoltan di aamod handi an inggana aduwan ya wada pay. Enteron di nunboblasyon (National, world and global) an nalpu hinan gobelnu, international organization ya imatunan da nan pangat di Ipugaw an pananud hinan eyye/pangat ya nan nunboblasyon an mangdat hi maphod an adal hi enteron di nunboblasyon.*

*Nan inbagbaga da:*

**Presidential Decree No. 260**

*Declaring the ...Ifugao Rice Terraces of Banaue as national cultural treasures...*

Source: [http://www.lawphil.net/statutes/presdecs/pd1973/pd\\_260\\_1973.html](http://www.lawphil.net/statutes/presdecs/pd1973/pd_260_1973.html)

**American Society of Civil Engineers**

*A Historic Engineering Landmark for water supply and control*

Source: [https://www.tripadvisor.com.ph/ShowUserReviews-g294249-d317588-r182515606-Banaue\\_Rice\\_Terraces-Banaue\\_Ifugao\\_Province\\_Cordillera\\_Region\\_Luzon.html#](https://www.tripadvisor.com.ph/ShowUserReviews-g294249-d317588-r182515606-Banaue_Rice_Terraces-Banaue_Ifugao_Province_Cordillera_Region_Luzon.html#)

## UNESCO

*The Rice Terraces of the Philippine Cordilleras is an outstanding example of an evolved, living cultural landscape that can be traced as far back as two millennia ago in the pre-colonial Philippines.*

Source: <http://whc.unesco.org/en/list/722>

## Globally Important Agricultural Heritage Systems (GIAHS)

*The local management and governance of the rice terraces have been influenced by culture embodied in customary laws based on social taboos and customs handed down from one generation to the other.*

Source: <http://www.fao.org/giahs/giahsaroundtheworld/designated-sites/asia-and-the-pacific/ifugao-rice-terraces/detailed-information/en/>

### Mikapulut-tulu an Adalon (Learning Activity 13)

Nan mamangulu ya buyaon yu hituwen video.



Legacy: Philippine World Heritage Sites  
<https://bit.ly/32kY1MN>

An ohan Ipugaw an munpangilog, ngandiyey punbigbig mu hinan IRT?  
An i-consider mu an importante hituwen hea ya hinan pamilyam?

**PD NO.  
260**

“

There is a necessity of preserving and utilizing the cultural properties of the nation for the furtherance of the people's culture

”

**CALL FOR ACTION**

**GIAHS**

“

However, the rice terraces are now in a very critical stage of deterioration and do not allow the local communities to overcome the poverty line. The continued survival of the terraces is threatened by various factors such as environmental degradation, unregulated development and neglect brought about by urbanization and changing values

”

### Mikapulut-opat an maadal (Learning Activity 14)

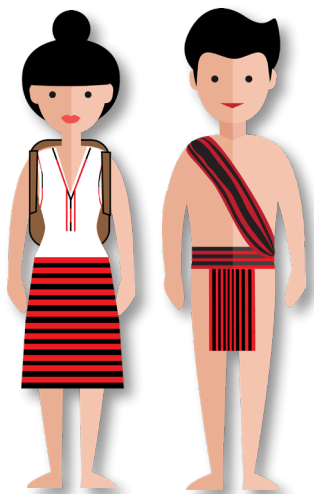
Inan maudi an maadal, kabalinan yu an pun-uuddumon nadan inadal mu ituwe ya mangiphod ayu hi video an mangipatigo hinan aammod yu ya iibba yu ngadan di maibaga da ituwen IRT conservation. Unudom nan wadad da'ul an mangapya hi video:

1. Bagaan yu ha lima an iibba yu ono pamilya yu ya damagom nu mabalin yu dida an humanganon mipanggep hi IRT ya ahi yu inrecord.
2. Usalo yu nan selpon ono tablet yu an munrecord hinan hongbat da hinan damag yu. (Tigom di pangiunnudam hinad da'ul)
3. Ipatigo yu nan kinapya yu an poster hinan Activity 4 hinan pangat pangipaptok/pangiphod (conservation) hinan muyung.
4. Damagon yu nu innila day ma'ma-at an pangipaptok/pangipaphod (conservation) hinan payo ya nan boble.
5. Alan yuy consensus (datuwe nan nun-abulutan yu/nun-om-oman di tatagu hinan ohan banag) nu kahapulan an innilaon nu ngadan pay di IRT conservation.
6. Mangapya ayu iha tikke an video (3 minutes) an mangipatigo hi pangipaptok/pangiphod (conservation) hinan IRT kadwa yu nan iibba yu ya pamilyam.

Hinae di maadal hi Book 1!

Congratulaions hi em nungibbuwan ituwen maadal.

Ahi tau muntitiggohan hi Book 2.





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