



**BOOK** **3**

**MIPADUKKE DI KIPKIPHODAN  
NAN NABANOBANONG AN  
PAYON DI IMMIPUGGO**





# 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

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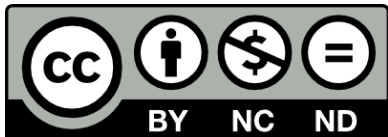


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# BOOK 3

## MIPADUKKE DI KIPKIPHODAN

## NAN NABANOBANONG AN

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**Book Authors:** Aurora V. Lacaste, Francis Mark Dioscoro R. Fellizar & Eulalie D. Dulnuan

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# BOOK 3

## MIPADUKKE DI KIPKIPHODAN

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### CHAPTER 1: NAN KA-AT YA KAIMPOLTANTEN DI PUNNANONGAN DI KIPHODAN



#### OBJECTIVES

Hay kagibbuwan tuwen maadal ya kabalanan yu mo an:

1. Maibaga nu ngadan datuwe an punnanong hi kiphodan (sustainable development) ya nan ka-at ya ka-impoltante na;
2. Maibaga nu ngadan datuwe an punnanong hi kiphodan (sustainable development) ya nan pinhod an ma-at (goals) ya nan mangipatigo idatuwe (indicators);
3. Ma-innila-an nu ngadan datuwe an poloblema hinan punnanong hi kiphodan (sustainable development) nan IRT an nunboblayan.



Hello! Apngahon da'yu ituwen Book 3. Hituwen mamangulun adalon tau ituwen Book ya ipatna an mangapya hi pangitigan di pun-awatan hinan punnanongan di kiphodan (sustainable development), pinhod an ma-at (goals) ya nan udum an pangipabaktu (promotes) ono nan humandi hi ena kagibbuwan (attainability).

Nakasagana ayun mun-adal ituwe?  
Nu om agat ilugi tau.

**Topic 1: Ngadan nan punnanongan di kiphodan (sustainable development)?**

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

Lugiyen tau nan maadal. Nan mamangulu ya tigon tau nan video ta adalon tau nu ngadan nan punnanong hi kiphodan (sustainable development)?



What is Sustainable Development  
<https://bit.ly/2Hmb1vm>

On ginibbu yu an binuya? Ya buya-on tau go han documentary film an punnanong hi kiphodan.



The Concept of Sustainability  
<https://bit.ly/2ExXdfC>

***Limpas yu? Aduwani ta ginibbu yu an binuya nan documentary film, ya hay aton tau o ya punhuhumanganan tau nu ngaday naadal tau ituwen film. Punhuhumanganan yu inan pamilya yu nu ngadan di naadal yu inan punnanong hi kiphodan ya ngay ka-at na ida'yu ya iboddang na.***

***Topic 2: Nan Himpulut-pitun punnanongan di kiphodan (sustainable development) an pinhod an maat (goals)***

### **Mikadwan Adalon (Learning Activity 2)**

Lugiyen tau hituwen maadal hi ohan video. Ta adalon nu ngadan tuwe an SDGs, buyaon nan video linked hinad da'ul ta maadal nu ngadan datuwe.

# SUSTAINABLE DEVELOPMENT GOALS

The 17 Sustainable Development Goals  
<https://bit.ly/3fhYu8E>

Nunhihinatkon nan panibo/punnomnom di ohan tagu. Ituwen mihaynod an maadal ya donglon tau nan maibaga yu ituwen 17 an SDG, Nu he-ay napili an oha an tumulung an mang'baga hi ki'ayan/ki'atan datuwen pinhod an ma-at (goals) ngaday tulu an mamangulun hongbatan yu? Nape ta pinili yu datuwe?

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**Topic 3: Punnanongan di kiphodan (sustainable development) ya He'a**

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

Lugiyen tau nan mikatlu an adalon hinan punbuyaan tau hinan video linked hina da'ul na.



**Topic 4: Poloblema hinan Punnanongan di Kiphodan**

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

Wada tau mo inan maudi an maadal hinan mamangulu an chapter. Ituwe ya punhuhumanganan nu ngadan man dadiye an poloblema an madamu tau hinan pun-iphodan hinan punnanongan di kiphodan (sustainable development) an pinhod an ma-at (goals). Ta milugi, buyaon tau nan video linked hinad da'ulna.



What are the World's Biggest Problems?  
<https://bit.ly/38WYxFS>

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## MIPADUKKE DI KIPKIPHODAN

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### CHAPTER 2: NAN MAPHOD AN PANGAT HINAN PUNNANONGAN DI KIPHODAN AN NIDUTTUK HINAN AGRITOURISM YA ZERO-WASTE MANAGEMENT



Hay kagibbuwan tuwen maadal ya kabalinan yu mo an:

1. Pohpohdon (appreciate) nan nunhihinatkon an pangiphod di Punnanongan di Kiphodan hinan nunhihinatkon an pangat/eyyen di tatagu hian namin an kabob-boblen di ASEAN;
2. Adalon/Innilaon nan case studies/ya nan maphod an unudon hinan organic farming ono punliyak/puntanom an adi makamhan di agah;
3. Innilaon ono potkon ya punhuhumanganan nan ma'maat hi agritourism an hannotanah maphod ono adi maphod hinan nunlinikkodan;
4. Innilaon ono potkon nan ngunun di lalaki ya babai (gender roles) handi ya aduwani an maphod an pangat di agritourism ya;
5. Munnomnom ya nangapya ayu maphod an aton hi zero-waste management.

Ituwen chapter ya punhuhumanganan tau nan Nan maphod an Pangat hinan Punnanongan di Kiphodan an niduttuk hinan punliyak /puntanom an maid ha niddum an agah (organic farming), Agritourism, Zero-waste Management, ya nan ngunu an aton di lalaki ya babai (gender roles) handi ya aduwanin ma-at hi punliyanan ya puntanom (agricultural practices).



**Topic 1: Nomnomon tau nan pangat di Immipuggo an punliyak/punhabal handi**

**Mikalima an Adalon (Learning Activity 1)**

Buyaon tau nian han video an mangipatigo hi pangat di Immipuggo an punliyak/punhabal handi (Organic Farming Methods of Ifugao). Hay udum ya inila yu mo nu inggana aduwani ya at-atton pay di a-ammod yu.



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



Pest Management in the Ifugao Rice Terraces  
<https://bit.ly/3lbQfO3>



Land Preparation in the Ifugao Rice Terraces  
<https://bit.ly/3hr7CYR>



Ifugao Rice Terrace Construction  
<https://bit.ly/34sJK3i>

***On inila yu an nan punliyak/punhabal di Immipuggo ya nibilang an organic farming? Nu uggem inila handi, aduwani inilam yu mo? Dan adi ayu mun-amlong ta nan pangat di a-ammod handi ya maphod an punnanongon di nunlinikkodan. Itultuluy yu pay kuma nan maphod an pangat hi punliyak/punhabal hinan umalin timpu.***

### ***Topic 2: Eco-tourism hituh kawadan taun Ipugaw***

***Itigo tau hi eco-tourism ya hay ka-atana hituh kad-an tau'd Ipugaw. Nan eco-tourism ya "Nan aton an pangipatok hinan umeyan an boble (natural areas) ya nan atonan bumaddang ta miphod di nunlinkkodan nan boble ya nan tataguh nan bimmoble" (Responsible travel to natural areas that conserves the environment and improves the well-being of local people) (The International Ecotourism Society or TIES, 1990).***

***Hiyadin an nan e pundaldallanan hinan muyung ono inalahan (rainforest) ya adi makali an eco-tourism nu maid ha atom an bumaddang ta miphod ya mipaptok nan nunlinikkodan di nunlutaan (environment) ya nan tataguh an bimmoble hidi. Nan rafting trip ya makali bon eco-tourism nu ipainnila yu di aton (raises awareness) ta adi mapaki nan pangal-an hi liting ono mangiphod hi pangal-an hi kahapulan (fund raising) an bumaddang hi kiphodan nan kalpuwan di liting.***

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

Ituwwen ma-at, buyaon tau nan documentary linked hinad da'ul mipanggep hi Eco-tourism initiative di Kiangan, Ifugao.



The Nagacadan Rice Terraces  
<https://bit.ly/3112r78>

Ten nagibbu taun nunbuya inan documentary, aton tau nan mihaynod an ma-at:

On abuluton/om-oman yu (agree) an nan Open air Museum ya ohan eco-tourism? I-defend yu nan hongbat yu. Punhumanganan yu inan ibbam ya pundipendal yuy boddang datuwen mangitunduk an pundamdag:

1. Ngaday aton di Open air museum an mamoddang hi ohan bimmoble?
2. Ngaday aton an mangipa-innila hinan Eyye/Pangat di Immipuggo?
3. Ngaday aton tuwen Open air museum an mangidat hi adal hinan minangili (tourists)?
4. Ngandan nan udum an madi/nalawa an epekton di open air museum?

***Aduwani, tigon tau nan ni-unnudan nan pangat/eyye (culture) ya nan punannongan di kiphodan (sustainable tourism development) di tourism.***

***Inbagan na Ding ya hi Pigram (WTO, 1995), an hay tourism ya mahapul an makapkapyah kapnekan di tulu an nahamad an panginomnoman (principles):***

- 1. Ta miphod di kitaguwan nan mangabulot an bimmoble;***
- 2. Mangidat hi padas (experience) an makkaphod ya kapkapnekan di bihita; ya***
- 3. Ta munnanong di makakaphod an nunlunikkodan di nunlutaan (environment) an mahapul ya pundinolan di bimmoble ya bibihita.***  
– McIntyre, G. 1993. *Sustainable Tourism Development: Guide for Local Planners*. Madrid: World Tourism Organization.

***Nu aggem ninomnom, nan tourism hitu ad lpugaw ya imbangad na on nan nabanobanong an payo ya nan pangat ono eyyen di Immipuggo, an nakapya hi ongal ya nipataddogan di nunhihinatkon an bumoklaan di tatagu (commercialism) ya na kiphodana. Mo den aduwani, nan lpugaw an makalin Heritage Site ya maligatan an mangipainnila (promoting) inan Rice Terraces an tourist product ya nan pangipaptok ta adi kakamhan di udum an boble.***

***Tigom nan summer festivals. An nan pangat/eyye tau ya mipatpatigo hinadan festivals ono ay-ayam an pun-am-amlongan di bimmoble an nakapyan mapmaphod ya maid kaing-ing-ngo na.***

### **Mikapitu an Adalon (Learning Activity 7)**

Tigon yu nadan video mipanggep hi ka'kaat di ay-ayam tau:



Ifugao Traditional Games  
<https://bit.ly/36VNBWa>

Ginibbum en binuya nan video, hongbatam nan damag:

1. An nan ay-ayam (ethnic games) ya map-maphod an tourism product?
2. Ngadan di aton datuwen tatagu an mangipatpatigo hinan ay-ayam ta waday ganansiya-on/ bokla-on da?
3. Ngadan di aton idatuwen pangipatigo inan ay-ayam ta bumoddang hi adi katalakan nan pangat/eyye (cultural conservation)?
4. Ngaday kapakiyan nan pangat ono eyye?

Mibasal hinan hongbat yu hinah baktu na, pakanomnomom yu nu nan pangipatpatigo inan ay-ayam (festivals) ya maphod an tourism product.

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### **Mika-walo an Adalon (Learning Activity 8)**

Hay tourism ya mabalín an waday madi an epekto na. Ihan inadal nan SITMO (Save the Ifugao Terraces Movement) ya inilan mon nan iibban Ipugaw datuwen madi an epekto na.

“Hay kaimportante na, hinan paki’atan di bimmoble inan punplanuwan, ya maibaga ono madutuk da nu ngadan datuwe an maabulut ta punbalbaliwan di nunlinikkodan (environment) ya nan paki’kiatan hi eyye/pangat (socio-cultural) gapu hi tourism. Nunhuhumangan nadan bimmoble an mihaad hinan kad-an di World Heritage rice terraces clusters an adi da maag-on ipatigo ono aton nan rituals (pangat/eyye) ta tigon nadan turista. Hituwe eh ya paniyo hinan pamati da ya hinan a-ammod dan nunkakate, te hituwe ya adi langlangkak. Kat metlang hinan nunboblasyon di Nagacadan, Julongan, Kiangan an nangapya da uldin da an adida namag-on mangapya hi bale kad-an di payo te humawan/pumaki hinaan maphod an tigon di papayo. Datuwe ya nakapyan uldin gumapu hinan mahanhannotan an tigon nan nunlinikkodan di nunboblasyon da (environment) gumapu tourism.” - SITMO, 2008. Impact: The Effects 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, Philippines, p. 85.

Nan hongbat yu idatuwen poloblema, aton yu nan mihaynod an ma-at:

Nomnomon yu an kay ayu mangapya hi sulat i Mayor gapu hi ohan pinhod yun ma-at an tourism activity hinan kad-an yu. Nape ta nanomnom yu hidiyen activity? On nape ta special? Dependalan yu nan kinapya yu, ya iphod yun ibaga nan maphod ya madi/nalawa an maala ituwe.



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**CHAPTER 3:** IPHOD HA MAPHOD AN KITAGUWAN AN NALPU' NUNLINIKKODAN, MAPHOD AN PABGIBOK YA PANGIMATON HI IBBAN TAGU YA KUMADANGYANAN DI NUNBOBLAYAN



Hay kagibbuwan tuwen maadal ya kabalinan yu mo an:

1. Aton nadan ninomnom yu an punnanongan di nahamad an kinadangan di barangay;
2. Ipaphod ha punnanongan di eco-village plan an mabalin an ma'at ya punnanongon di bimmoble an Immipuggo.



Hinan kiphodan di paki'-ki'-atan/paki'-ki'-ayan hi ibban tagu, hay mapmaphod pay an kitaguwan ya ma'at di munpunliyak/munpunhabal (farmers) nu mihaad da hinan makaphod an nunbobl原因 (environment). Malinggop di adol da, waday punngunuwan da katawo-tawon ya kanayon di boklaon da. Pumhod pay di pun'adalan da, mun-oh-ohha di pamilya da ya nahamad di kitaguwan nan bimmoble (Cartalucci, 2017). Nan resulta na ya mangidat hi maphod an kitaguwan da.

Hay kipaphodan di ohan bimmoble ya hay pangipapatiyan dan mangidat hi maphod ya nahamad an kitaguwan an nalpu' nunlinikkodan, maphod an mangibok/pangimatunan hi ibban tatagu ya kumadangyanan di nunbobl原因 te kabalinan da an itaddog di adol da/nitaguwan da ya nan nunbobl原因 da.



**Topic 1: Self-sufficiency and ecology**

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

Buyaon tau ni-an nan mamangulun video ta adalon tau nan opat (4) an uldin di Ecology.



Environmental Literacy  
<https://bit.ly/2HoDgtq>

Ituwen ma-at, i-kulit/i-drawing yu ya iphod yu an ibaga (explain) nan uldin/lintig nu ngadan di ki-atana i-dayu ya nan IRT.

**Topic 2: Nan nanomnom inan Eco-village**

**Mikapulun Adalon (Learning Activity 10)**

Adalon tau nan nanomnom (concept) nan eco-village. Buyaon nan video da'ul na ta innilaon nu ngadan diye.



The Concept of Eco-Villages  
<https://bit.ly/2ITEVr8>

On nanomnom yu an nan eco-village ya mabalin hitun nunboblaysan yu? Ta mabaddangan ah hinan hongbat yu agat alan ta nan paminhod mu. I-kulit/i-drawing yu nan ninomnom yu an kaat di eco-village hinan nunboblaysan yu. Punhuhumanganan yu nu nape ta athidi ninomnom yu.



Hana ot ta inam-amlong yu nan Book 3, ya impoltante dakol di inadal yu ya nanomnom yu an bumaddang hi pangipaptok / panginanong inan nabanobanong an payon di Immipuggo. Hituwey nagibbuwan di Book 3.

Muntitiggowan tau hi Book 4!



## REFERENCES

- Bye Bye Plastic Bag. (2016, November 8). *The world's largest lesson on 17 SDG 2016* [Video file]. <https://www.youtube.com/watch?v=1ttQZ57zvVY>.
- Complexity Labs. (2017, May 18). *The rise of sustainability* [Video file]. [https://www.youtube.com/watch?v=L\\_skrxn71k&ab\\_channel=ComplexityLabs](https://www.youtube.com/watch?v=L_skrxn71k&ab_channel=ComplexityLabs).
- Consortium for Unfavorable Rice Environments – International Rice Research Institute. (2016, May 22). *Ifugao heirloom rice production (land preparation)* [Video file]. <https://www.youtube.com/watch?v=iZo-vouWdhw>.
- Ding, P. & Pigram, J.J. (1995). Environmental audits: An emerging concept in sustainable tourism development. *Journal of Tourism Studies*, 6(2), 2-10.
- Eco village designs*. (n.d.). [http://www.sustainableecovillages.net/eco\\_village\\_designs.php](http://www.sustainableecovillages.net/eco_village_designs.php).
- FN-sambandet Norge. (2017, May 4). *What is sustainable development?* [Video file]. <https://www.youtube.com/watch?v=7V8oFI4GYMY>.
- Food and Agriculture Organization. (n.d.). *Globally Important Agricultural Heritage Systems: Ifugao Rice Terraces*. <http://www.fao.org/giahs/giahsaroundtheworld/designated-sites/asia-and-the-pacific/ifugao-rice-terraces/en/>.
- GMA News. (2017, February 10). *Nagacadan Rice Terraces sa Ifugao, nagsisilbi na ring "open air museum"* [Video file]. <https://www.youtube.com/watch?v=ZfGICmpns0>.
- GMA Public Affairs. (2017, June 25). *Kapuso mo, Jessica Soho: Laro ng lahi ng mga Ifugao* [Video file]. <https://www.youtube.com/watch?v=5kWbMWejhC4>.
- Ifugao heirloom rice production pest management* [Video file]. (2012, November 5). [https://www.youtube.com/watch?v=wY6d5lbL\\_6c](https://www.youtube.com/watch?v=wY6d5lbL_6c).
- Ifugao rice terrace construction* [Video file]. (2011, November 23). <https://www.youtube.com/watch?v=JBMji3e3c04>.
- Ifugao traditional rice production* [Video file]. (2011, November 23). [https://www.youtube.com/watch?v=j\\_WtXQI5ck](https://www.youtube.com/watch?v=j_WtXQI5ck).
- McIntyre, G., Hetherington, A. & Inskeep, E. (1993). *Sustainable tourism development: Guide for local planners*. World Tourism Organization.
- NowThis World. (2015, September 27). *What are the world's biggest problems?* [Video file]. <https://www.youtube.com/watch?v=YY9nxG2ZQ7w>.
- Project EL. (2016, June 5). *Environmental literacy and the four laws of ecology* [Video file]. <https://www.youtube.com/watch?v=rcbtcZzpV94>.

Save the Ifugao Rice Terraces Movement. (2008). *Impact: The effects 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 Philippines)*. UNESCO Bangkok.

The International Ecotourism Society. (n.d.). *What is ecotourism? The definition*.  
<https://ecotourism.org/what-is-ecotourism/>.

United Nations. (n.d.). *Sustainable development goals* [digital image].  
<https://www.un.org/sustainabledevelopment/news/communications-material/>.

United Nations. (2017, August 18). *Sustainable development goals: Improve life all around the globe* [Video file]. [https://www.youtube.com/watch?v=kGcrYkHwE80&ab\\_channel=UnitedNations](https://www.youtube.com/watch?v=kGcrYkHwE80&ab_channel=UnitedNations).

United Nations Educational, Scientific and Cultural Organization World Heritage Centre. (n.d.). *Rice terraces of the Philippine Cordilleras*. <http://whc.unesco.org/en/list/722>.

United Nations University. (2010, August 12). *Mt. Fuji eco village connects to a greener world* [Video file]. Retrieved from <https://www.youtube.com/watch?v=AP8G1Z-RLNI>.

Youth for Ifugao Rice Terraces. (Photographer). (2017). *A female farmer harvesting crops near her rice field* [digital image].

Youth for Ifugao Rice Terraces. (2017). *Bugan clip-art* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2017). *Golden apple snail in a rice paddy* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2017). *Hungduan Rice Terraces* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2017). *Rice paddies in the Hungduan Rice Terraces* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2017). *The Banaue Rice Terraces* [digital image].

Youth for Ifugao Rice Terraces. (2017). *Wigan clip-art* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2018). *A community in the Batad Rice Terraces* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2018). *A farmer in the field* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2018). *Ifugao wooden bicycles* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2018). *The Batad Rice Terraces* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2018). *The Nagacadan Rice Terraces* [digital image].

Youth for Ifugao Rice Terraces. (Photographer). (2018). *Tinawon rice* [digital image].

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