EDC's experience in forest landscape restoration

energy
DEVELOPMENT CORPORATION

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WHO ARE WE???

WE ARE GLOBALLY DIVERSIFIED, 100% PURE CLEAN RENEWABLE ENERGY COMPANY

Lopez Values:

1) A pioneering entrepreneurial spirit
2) Business Excellence
3) Unity
4) Nationalism
5) Social Justice
6) Integrity
7) Employee Welfare and Wellness

EDC IS THE LEADING RENEWABLE ENERGY COMPANY IN THE COUNTRY - 21% OF COUNTRY'S R.E. GENERATION

TOTAL INSTALLED CAPACITY 1,471.8 MW

Burgos
150.0MW Burgos Wind
4.0MW Solar

Pantabangan
100.0MW Pantabangan

Masiway
12.0MW Masiway

Bacman
110.0MW Bacman I
40.0MW Bacman II

Southern Negros
112.5MW Palinpinon I
80.0MW Palinpinon II
49.4MW Nasulo

Leyte
112.5MW Tongonan
125.0 Upper Mahiao
232.5MW Malitbog
180.0MW Mahanagdong
50.9MW Optimization

Mindanao
52.0MW Mindanao I
54.0MW Mindanao II

AS A GEOTHERMAL COMPANY, OUR PROJECT SITES ARE LOCATED WITHIN FORESTS AND WATERSHEDS WHICH MAKES US INHERENT STEWARDS OF THESE RESOURCES





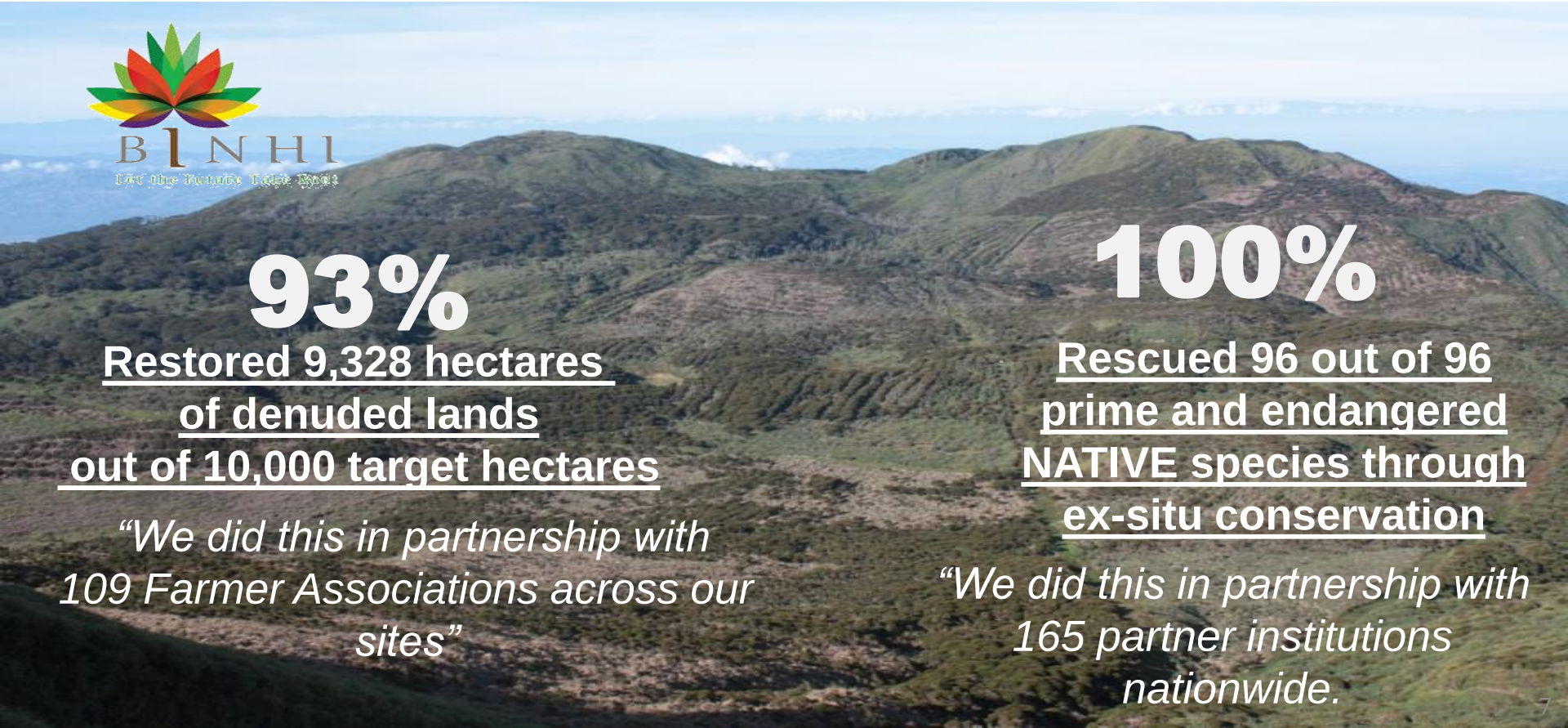





EDC MANAGES 266,326 HECTARES OF PUBLIC LANDS OR 1% OF THE PHILIPPINES' LAND AREA

MOST OF THE SITES WE RESTORED ARE IN SEVERELY DEGRADED SITUATIONS

THE BINHI PROGRAM BECAME OUR TOOL FOR FOREST LANDSCAPE RESTORATION



93%

Restored 9,328 hectares of denuded lands out of 10,000 target hectares

"We did this in partnership with 109 Farmer Associations across our sites"

100%

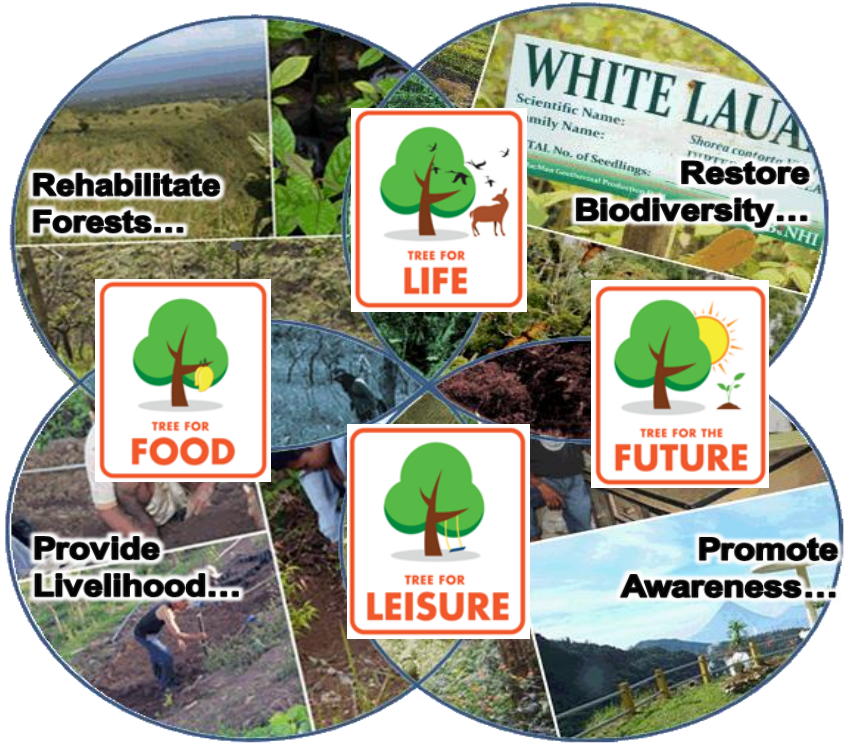
Rescued 96 out of 96 prime and endangered NATIVE species through ex-situ conservation

"We did this in partnership with 165 partner institutions nationwide.

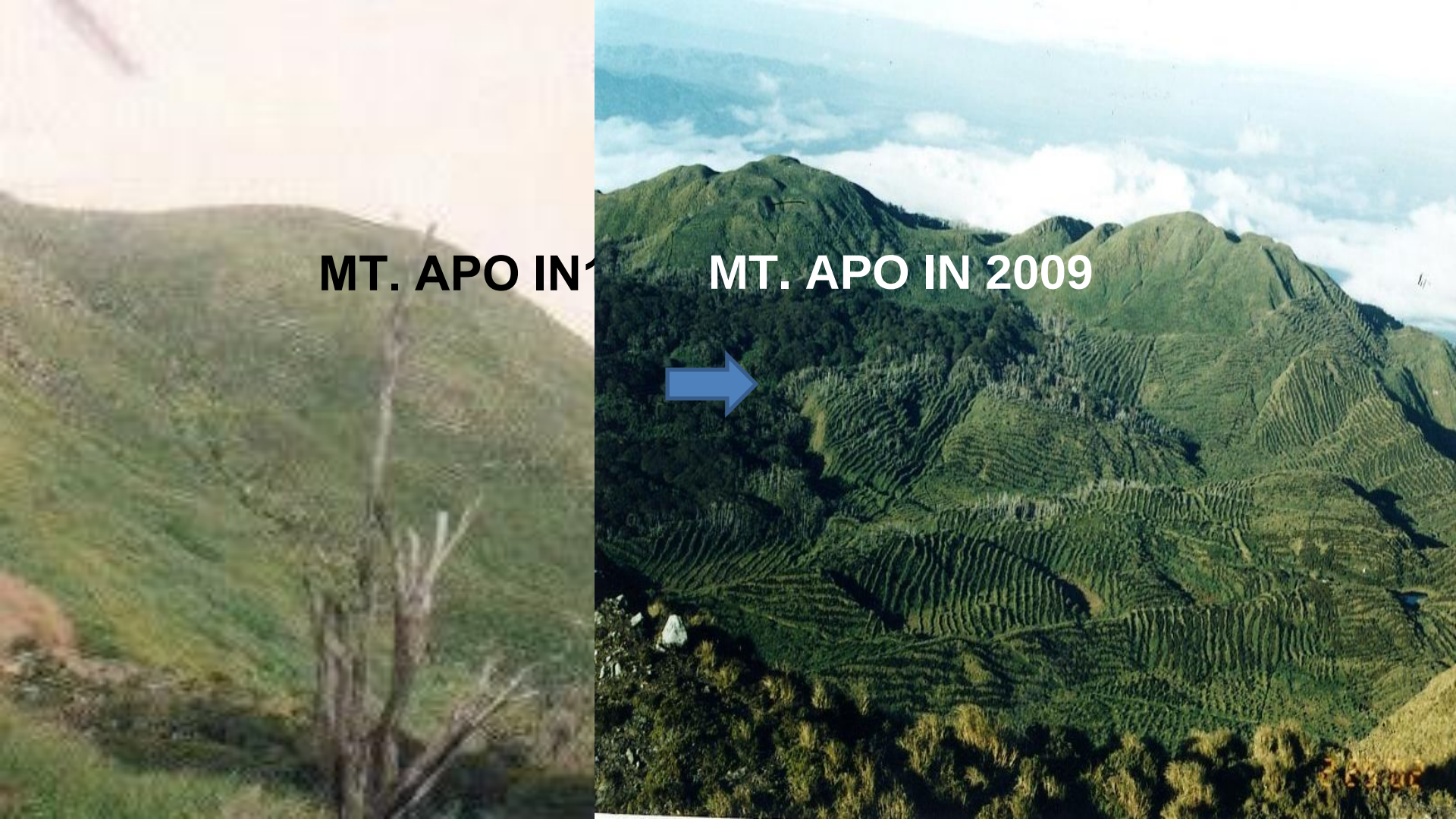
BINHI IS EDC'S GREENING LEGACY THAT PROMOTES THE CONCEPT OF SHARED VALUE AMONG STAKEHOLDERS

Our main target is to restore 10,000 hectares of degraded lands in 10 years

- **Rehabilitate** denuded **forest** areas
- **Preserve** threatened Philippine **native trees**
- **Provide** alternative **livelihood** to forest communities
- **Promote awareness** to find avenues for partnerships and participations



FOUR MODULES WERE CONCEPTUALIZED TO ADDRESS THESE INTENTIONS


MT. APO IN1
MT. APO IN 2009

MT. APO 2010

Manito Bay Mangrove Refo then…

3-year old mangrove plantation in Leyte (MINFA)


3-year old refo plot in Southern Negros


3-year old refo plot in grassland
(Northern Negros)
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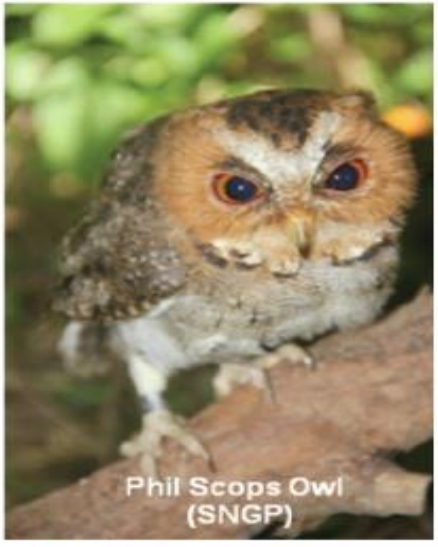
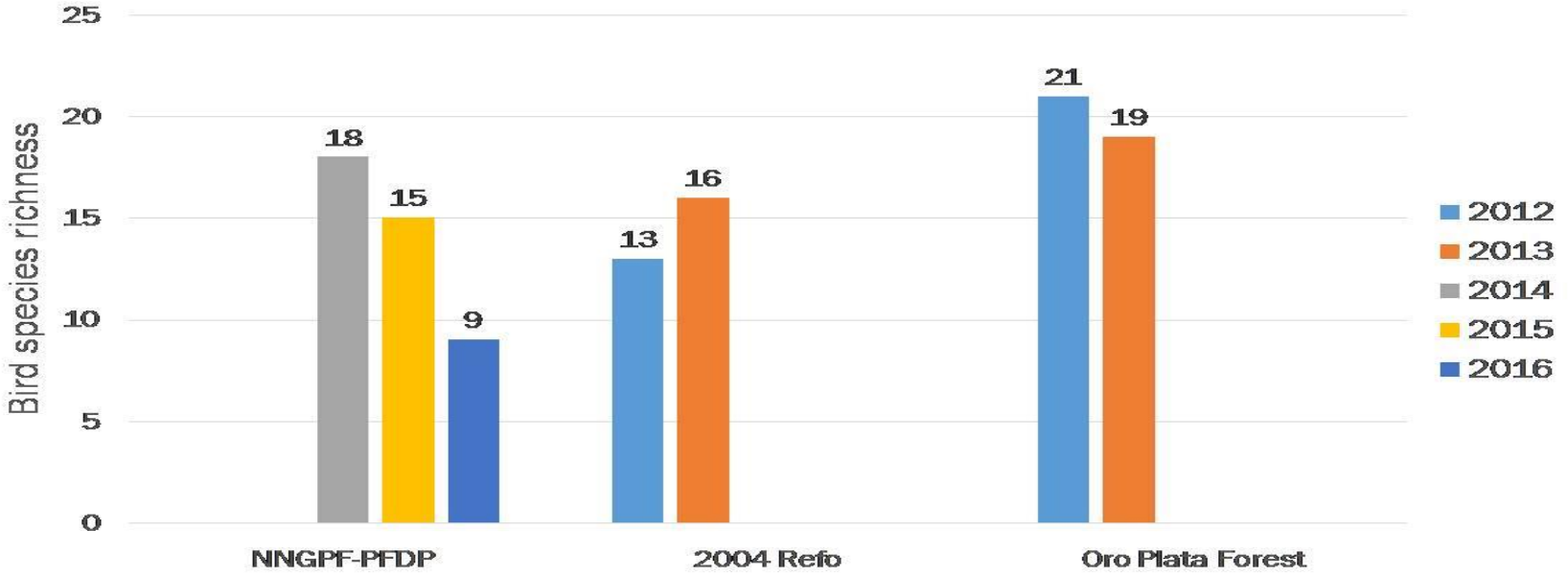
ENDEMIC SPECIES OF BIRDS ARE SIGHTED AGAIN AFTER MANY YEARS IN THE RESTORED AREAS

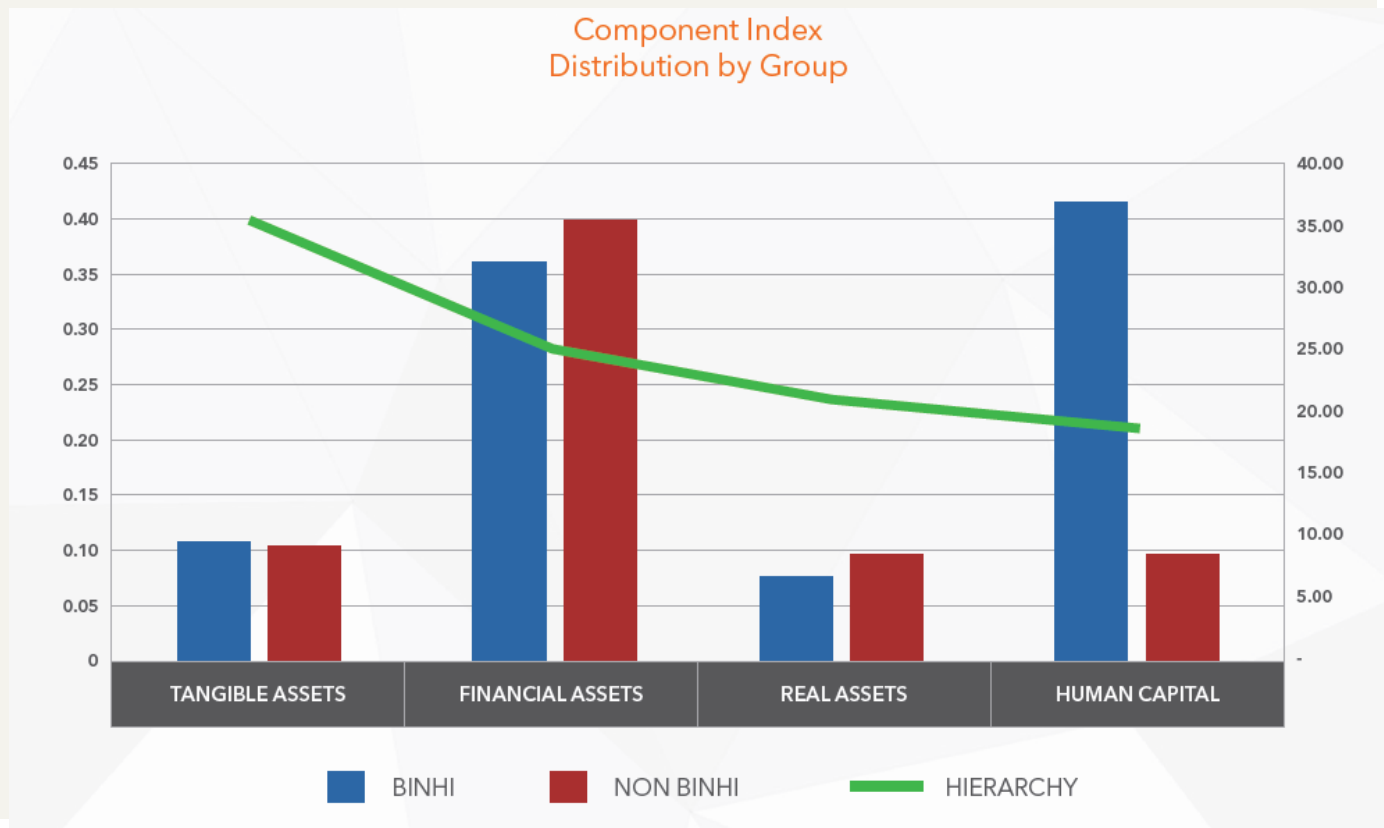


SPECIES RICHNESS IN OUR BINHI REFO SITES ARE ALREADY AT PAR WITH THE NATURAL FOREST



COMMUNITIES BEGAN REAPING THE BENEFITS

BINHI SOCIO-ECONOMIC INDEX STUDY IN 2017



GENERAL PROCESSES INVOLVED IN EDC'S FOREST LANDSCAPE RESTORATION PROCESS

Community consultation

Establish boundaries

Signed MOA with partners

Raise planting materials

Outplant, ANR, & ACPS

Monitor/ Audit

EXPERIENCE SHOWED SOME AREAS HAVE CHALLENGES IN SURVIVAL RATES BUT REGENERANTS RECRUITED ARE BEYOND THE STANDARD DENSITY

Mt. Apo Project Site

6 species planted; recruited 56 species

BINHI
27% survival
Regenerants 8,853 individuals/ha

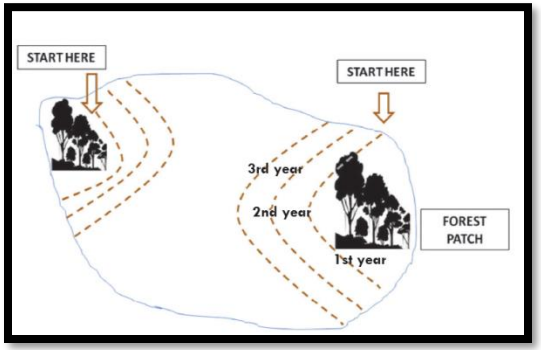
Northern Negros Project Site

20 species planted; recruited 69 species

BINHI
86% survival
Regenerants 1,600 individuals/ha

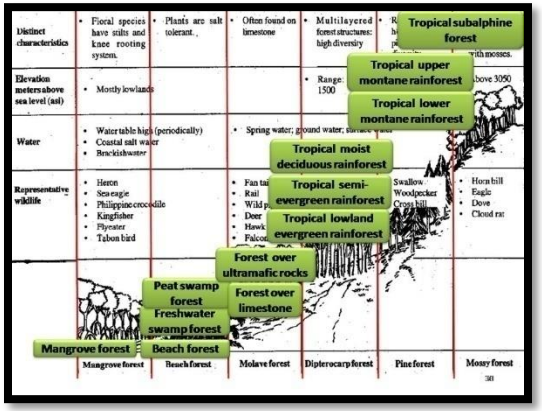
WHAT WE HAD LEARNED FROM EXPERIENCE

Where to plant



Succession stage

Species composition in each forest formation type



Customized strategy


Forests gaps

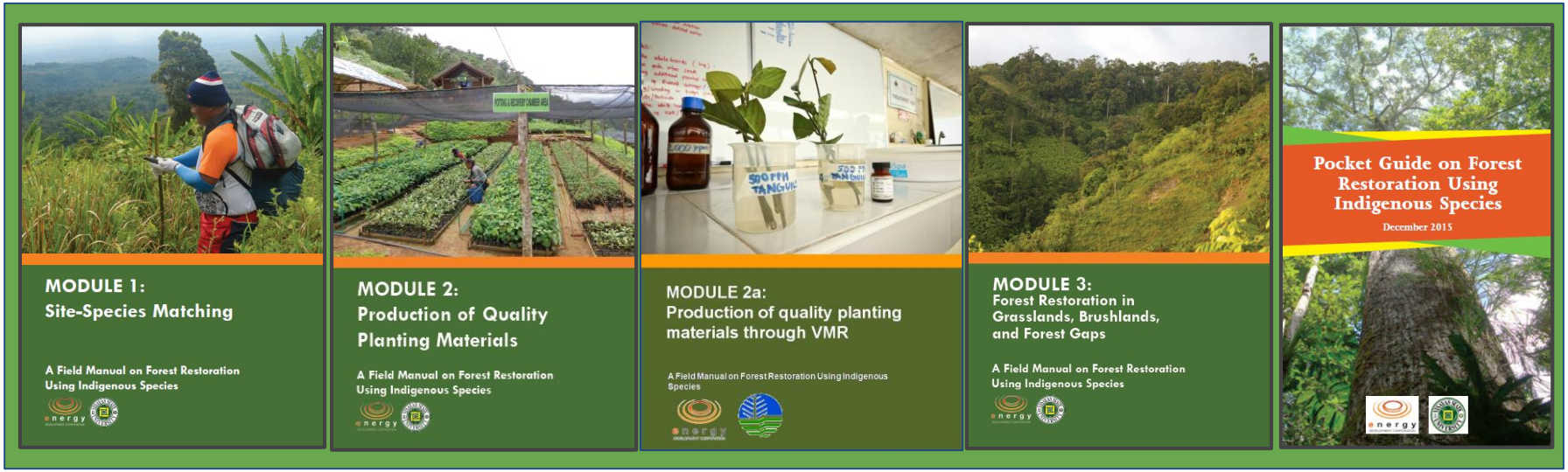

Brushlands


Grasslands

Preservation of regenerants

BINHI'S CHALLENGES AND LESSONS IN FOREST RESTORATION USING NATIVE SPECIES ARE TRANSLATED INTO MANUALS AND FIELD GUIDE MATERIALS

Co –published with Visayas State University and DENR-ERDB



BINHI publications and expertise reached not only EDC's partner farmers in the site, but also the sister companies in the FPH and the publics who want to partake on forest restoration initiatives using native species

CONCLUDING REMARKS

1. Forest restoration is more than just planting of trees.

2. It entails combination of strategies that should hasten forest succession.

3. Survival rate should not be looked into as a sole and standard parameter of success.

ALL BECAUSE WE BELIEVE THAT WE ARE IN ONE WATERSHED, ONE COMMUNITY