



**“Community-Based Education for Sustainable Development: Preservation of Indigenous Knowledge in Mangrove Protection and Conservation – a Climate Action”**

Dr. Anna Liza G. Santillana  
Visayas, Philippines

Cadiz City is a gateway and a premier center of agro-fishery resources of Negros Island. The strategic location of the city with a wide and rich island and marine resources



This is the mangrove area ravaged by typhoon Yolanda during its occurrence in 2013, that PNU Visayas started to rehabilitate.



# Working with fisherfolks in planning for the rehabilitation of the ravaged mangrove site





Surveyed for the number of remaining mangrove trees still growing after the typhoon and the common mangrove species in the area.



# Setting a plan for the project with the leader of the small fishermen organization





Organized the fisherfolks for the collaboration on the mangrove rehabilitation project.



A mangrove conservation management awareness campaign conducted to the students of PNU-V before they were sent in the project site for replanting of their nursery grown *Avecinia marina* or “Bungalon” propagules.





Fisherfolk spoke in front of the students and sharing her story on the importance of the mangrove to the fishermen and the people living along coastal area



Students on project site planting the mangrove species *Avecinia marina* the only species that can thrive in the area.





# Community residents and students working together planting mangrove seedlings





# The rehabilitated site in 2015 ,after 2 years



The fisherfolks and the residents of Purok  
Kakahuyan,brgy Daga,Neg. Occ, at the project site



# *The flourishing mangroves*





*Served as the real laboratories of pre-service teachers to observe its ecosystem and monitor its growth.*



This Mangrove Rehabilitation Project is dedicated to reversing the degradation and loss of mangrove forest wetlands and their associated coastal ecosystems in the city of Cadiz, Philippines.





# Moving forward towards sustainability





## PNU Visayas Faculty teaching the fisherfolks about SDG's and focus on Climate Action





Fisherfolks sharing to pre-service teachers indigenous knowledge of the interaction of organisms in the mangrove ecosystem and how to protect and conserve them.

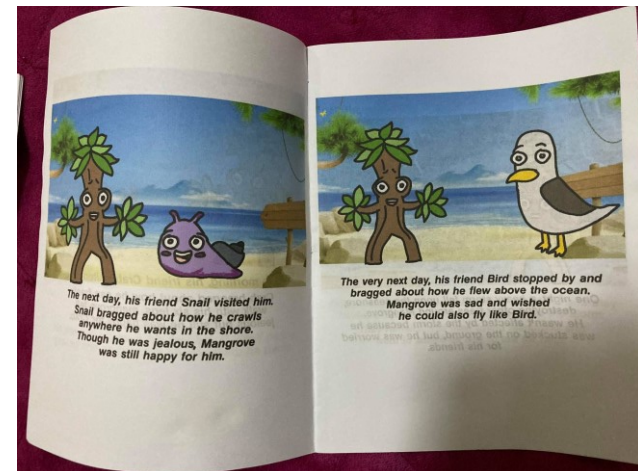
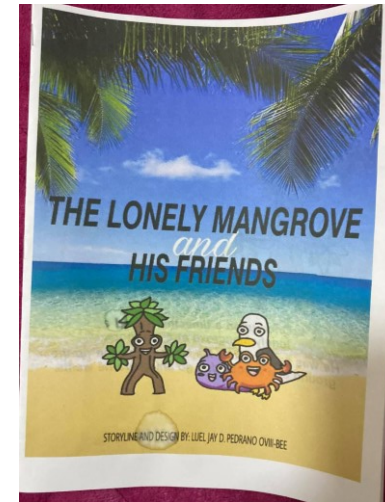


Identifying and naming mangrove organisms in the local language as characters of the instructional materials for reading to be developed by pre-service teachers.



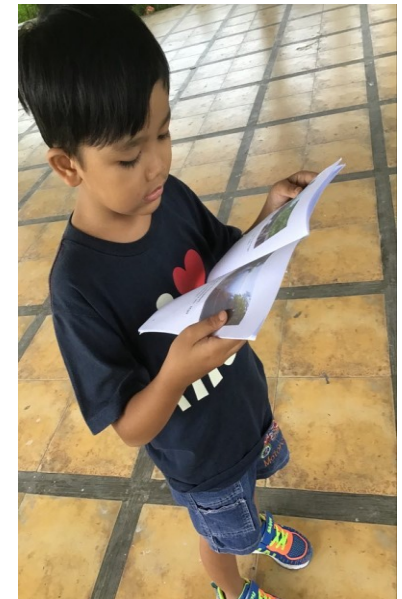
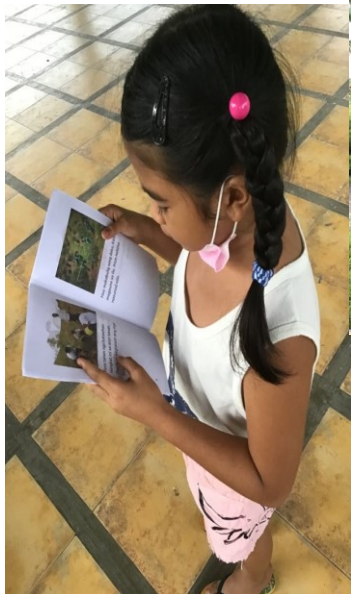


# Instructional materials for reading developed by pre-service teachers with content of indigenous knowledge of the mangrove ecosystem shared by the fisherfolks





The reading materials used for reading by the early graders to enhance their reading skills and help develop the values of mangrove protection and conservation





This project is still on the process of establishing a school –based nursery for children to nurture the mangrove seedlings for planting at the rehabilitation site. The reading materials will serve as the path towards their understanding of the importance of mangrove protection and conservation which has a great contribution in climate change mitigation. This project bridges the fisherfolk community to the school likewise the school to the community. The indigenous knowledge the fisherfolks shared and used in the reading materials will be cascaded to their children that in return will be preserved in books and other reading materials to be used by the teachers.

THANK YOU