

PLAN OF ACTION | RIVER SCAN CHALLENGE

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Background of the Study

Due to the arising pollution issues of several major rivers in Cebu City and Mandaue City, several proposals have been planned to revive these bodies of water. To help resolve and participate on this environmental concern, students from the Netherlands and the Philippines are collaborating to resolve this long-drawn-out issue. This project will be providing rehabilitation solutions to the creeks and rivers of Cebu City and Mandaue City. Moreover, the project is divided into areas due to the large scope and its complexity. Specifically, the team will focus on the issues on pollution concerning the midstream section of the Mahiga River, encompassing Cebu City and Mandaue City. This project is conducted through a collaboration of Dutch students from the Rotterdam University of Applied Sciences and Hanze University, and Filipino students from the University of San Carlos. Lastly, this project is done in collaboration with the Cebu City Environment and Natural Resources Office (CENRO) and other participating LGU's (Cebu City and Mandaue City).

Problem Statement

The Mahiga Creek is one of the many small rivers that flow through Cebu City and Mandaue City. These small flows often have no clear origin and usually flow from a higher point to a lower point. The river originates at two points and converges in a larger river that ends in the Mactan Channel. Several attempts have been made by the government to clean up the river, such as clean-up campaigns, in which about 50 tons of waste were collected. Unfortunately, such measures since among of the main problems - illegal settlements and dumping of waste, have not been solved.

Objectives

Currently, the Mahiga creek has two major problems, and these are the high level of pollution in the water and the flooding that happens when it rains too hard or for too long. The aim of this project is to give this river a new life by coming with new innovations that can help solve the problem of the pollution and flooding. Specifically, this project aims to:

- Raise awareness among the residents of how one's action can cause the whole ecosystem and quality of life to fall apart. Hence encourage the residents to work together with the government so that they can improve the quality of life and ecosystem of the river.
- Present detailed solutions in two different infographics, that shows where in the river the solution should be applied,
- Identify the cost of the project and who are involved in the realization of this project.

Global question

To help resolve the issue and suggest solutions, the following main questions wished to be addressed in this project :

1. How can the water quality of the Mahiga river be improved ?
2. What is the behavior of the residents?
3. What is the role of the government in this project? How much can the government afford?
4. What solution can be applied here in the Mahiga creek to create a better-quality water?

ACTION PLAN

Presented in the Action Plan below is the schedule of task and the target dates of completion for each. The following are as shown:

GOAL 1	ACTION STEP DESCRIPTIONS	RESPONSIBLE	DATE TO BEGIN	DUE DATE	PERCENT COMPLETED
Creation of Team Name and Logo	Organize a meeting with the group and suggest or discuss the team name and logo.	All members	April 19, 2021	April 19, 2021	100 %

GOAL 2	ACTION STEP DESCRIPTIONS	RESPONSIBLE	DATE TO BEGIN	DUE DATE	PERCENT COMPLETED
Creation of an Infographic	Gather images of the current situation of the Mahiga River (downstream).	Augustjin	April 20, 2021	April 22, 2021	15 %
	Identify the problems and causes of pollution and facts about the midstream of the Mahiga River.				
	Creation of an Infographic aiming to inform the public about the current situation of the river.				

GOAL 3	ACTION STEP DESCRIPTIONS	RESPONSIBLE	DATE TO BEGIN	DUE DATE	PERCENT COMPLETED
Creation of Factsheet	Research Data and existing document about the Mahiga River	Kim and Mary	April 20, 2021	April 22, 2021	15 %
	Creating an introduction to the river problems, issues, level of pollution, users, policies and etc.				

GOAL 4	ACTION STEP DESCRIPTIONS	RESPONSIBLE	DATE TO BEGIN	DUE DATE	PERCENT COMPLETED
Technical Report / 10 Paged Solution	Design a solution for the polluted river, perform location analysis and cost benefit analysis, plan on how the solution should be implemented, identify the stakeholders involved and identify who are the responsible individuals for the operation and maintenance of the proposed solution.	All Members	April 25, 2021	April 29, 2021	-