



# LIVING *with* HYACINTHS

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LBD 4 Action Plan

April 2-6, 2014



# INTRODUCTION



- Water hyacinth is a free-floating perennial plant that can grow to a height of 3 feet.
- It is a very aggressive invader and can form thick mats. If these mats cover the entire surface of the rivers they can cause oxygen depletions and fish kills.
- It should be controlled so they do not cover most part of the river.


# Water Hyacinths in the Philippines

- Often locally abundant in shallow lakes and ponds, from northern Luzon to Mindanao.
- They also provide useful organisms to underwater life but they multiply quickly and as such, clog waterways, block drainage systems, and cause floods.










# PROBLEM STATEMENT

- Clog waterways
  - Block drainage systems
  - Cause floods
  - Hindrance to water transport
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# OBJECTIVES

- To manage and control the growth and the number of water hyacinths that are congesting the Marikina River along Manggahan Floodway, Pasig, Philippines
- To clean up and revive its value as a transport route
- To transform the water hyacinths into a source of income
- To provide jobs to the people living nearby the area
- To raise a common fund to be used during emergency

# IMPLEMENTATION PLAN

## CLEAN AND CONTROL

- With the help of the volunteers as well as in collaboration with Non-Governmental Organizations (NGOs) and the Department of Environment and Natural Resources (DENR), we can clean the affected area and control the growth of water hyacinths that are prohibiting the flow of the water. This project will be made possible and faster through the availability of the equipment provided by the government.



## PRODUCTS

- The collected water hyacinths will be turned into world-class products that will help improve and sustain the lives of the people residing the area. These are sources of raw materials for slippers, bags, gift boxes, key chains, and others.





## WORKSHOPS and TRAININGS

- We will organize workshops/trainings through the help of skilled people in the field of handicrafts to educate the residents and volunteers on how to produce the desired product.
- If the people are capable enough, they will be able to stand on their own and build their business.

## CREATING A BUSINESS COOPERATIVE

- We will facilitate the people to form a cooperative within their community. They will define their governing procedures and rules.
- Those who will be selected will supervise the said project as well as the financial matters.
- When they start earning profit, The majority (80%) of it will be used in project costs for both maintenance and expansion, while the remaining profit (20%) will proceed directly to a disaster fund, which will be used whenever emergency arises.

## MONITOR

- Throughout the project, we will continue to monitor the development of it for the assurance of sustaining their needs and livelihood.





# TIMELINE (2014)

No.	Draft Program	Duration	Details
1	Planning	1 month	Setting goals
2	Looking for Volunteers	1 month	Raising funds and support
3	Clean Up	Twice a week	Collecting water hyacinths and restoration of the river
4	Workshops / Training	Once a week	Teaching people on how to make handicrafts out of water hyacinths and how to manage a business
5	Monitoring	Once a month	Checking up on the development of the project

# BUDGET / SOURCE OF FUND

Activity	Amount Needed	Expected Source
<b>Clean Up – Equipments</b>	Donated	Partners / Government
<b>Workshops / Trainings</b>	Volunteered / Donated	Partners - DTI
<b>Starting up a Business</b>	Donated	Partners

# PARTNERS

- Department of Environment and Natural Resources (DENR)
- Department of Trade and Industry (DTI)
- Villar Foundation
- Eubios Ethics
- St. Paul University Quezon City
- Tourism and Accountancy Society of SPUQC





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