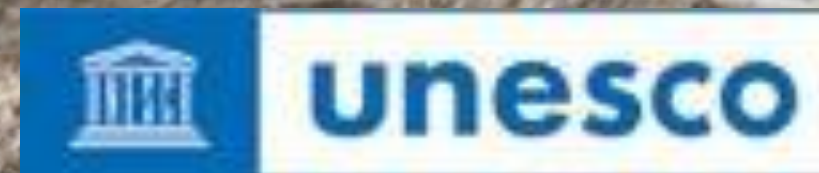




SAVING OUR ICONIC WILDLIFE:

**URGENT ACTION TO PRESERVE
DEER POPULATION IN NINO KONI
SANTANA NATIONAL PARK FROM
WATER SCARCITY**



CONTEXT

A

- DEFINE,
- IDEATE,
- DESIGN

B

- PROTOTYPE
- TEST



project addresses the pressing issue of water scarcity threatening the deer population in Jaco Island, Nino Koni Santana National Park







IDEIA

Mitigate water scarcity through rainwater harvesting systems

Vision: Create a thriving ecosystem with sustainable water resources

Goal: Increase water availability for deer population



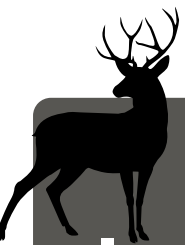


Approach and Methods

- Prototype Development: Create a rainwater collection system with structure.
- Artificial Pond Construction: Direct rainwater to a strategically positioned pond.
- Pilot Testing: Assess system effectiveness by monitoring water levels and quality.





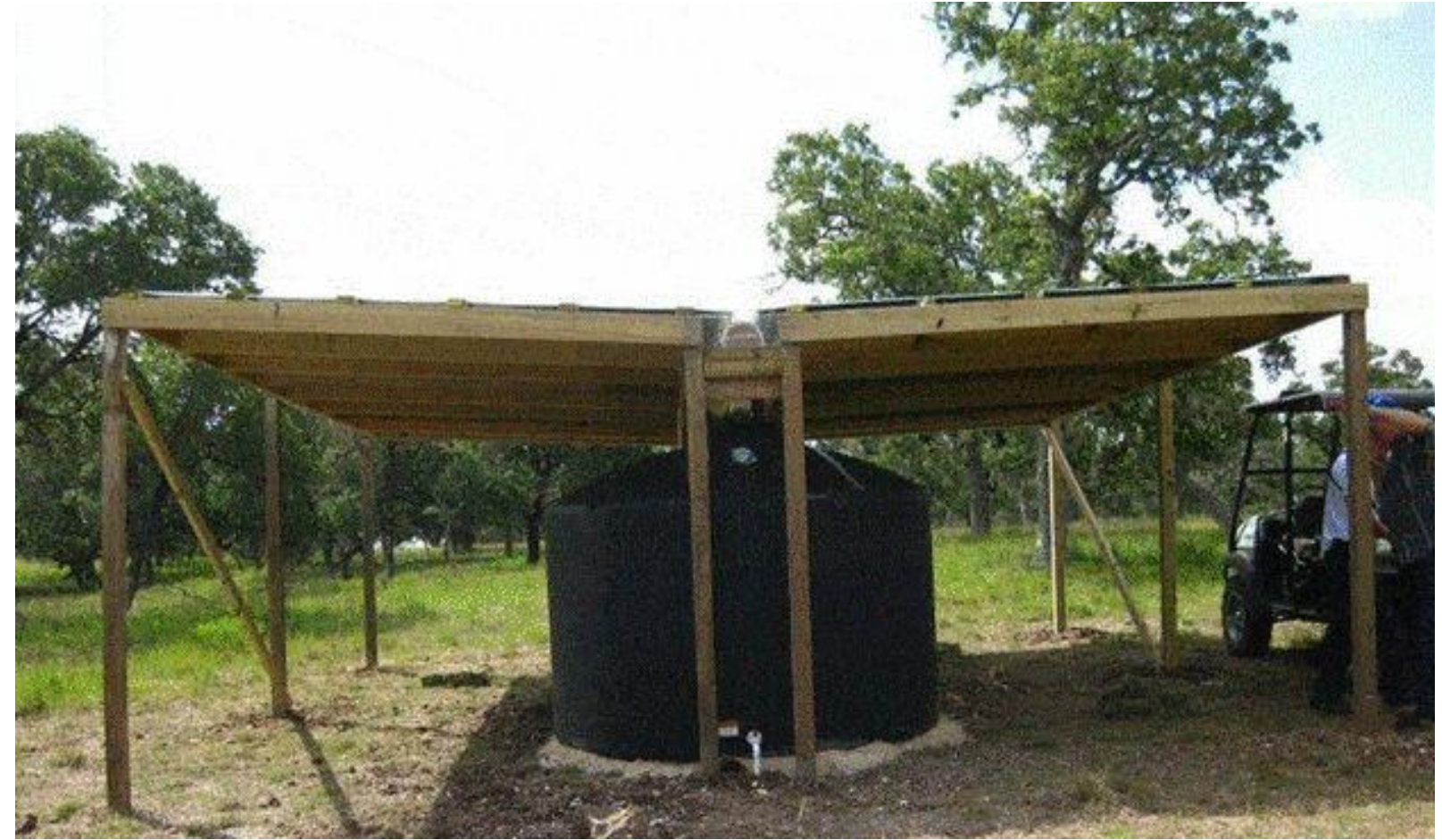
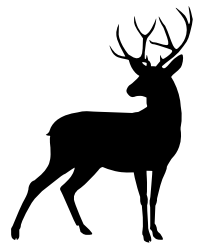


Implementation Strategy

- Use sustainable materials like bamboo and industrial woods for structures.
- Repurpose fish plastic tanks for cost-effective rainwater collection.

effort before







Adult deer water consumption 2-4l/day

- Calculate the Volume of the Pond
 $\text{vol} = L * W * \text{Depth}$ (2m*2m*0.5m)
pond volume = 2 cubic meter
- 2. Annual rainfall 1500-2000mm in Jaco
- 3. Water collected: Volume= catchment area * rainfall.

One pond could accumulate from 2 to 4 cubic meter of water equal to 2000l to 4000l of water.







THE PILOT

Implementation of the pilot: Action to Preserve Deer Population in Nino Koni Santana National Park from Water Scarcity. Within 6 weeks of implementation here are what we design.



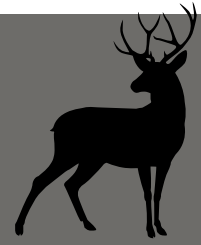
Week 1 (March)	Planning and Preparation
Week 2 (March)	Construction Begins
Week 3 (March)	Construction Continues
Week 4 (April)	Testing and Monitoring
Week 5 (April)	Refinement and Feedback
Week 6 (April)	Project Conclusion and Reporting





Key Stakeholders:

- **Village Leader:** Represents the local community's interests and concerns. Provides insights into community needs and priorities.
- **Youth Leader:** Represents the younger generation within the community. Mobilizes youth volunteers and coordinates community engagement.
- **Park Ranger:** Manages and conserves the natural resources within the national park. Provides expertise on wildlife conservation and ecosystem management.



PS: This budgeting done base on price survey

- **Total Cost for Building and Implementing Pilot Project:**
- Cost for Pond Construction (2 prototypes): $\$170 \times 2 = \340
- Cost for Structure Construction (2 prototypes): $\$285 \times 2 = \570
- Adjusted Total Cost = 880

2. Total Cost for Site Visit and Engagement:

- Adjusted Cost: \$105

Considering the maximum budget limit of \$1,000 USD, the proposed budget plan falls within the allocated seed money.



THANK YOU!

