

The A-Team



Figure 1-1 The A-Team (from left to right): Ernesto Silva, Megan Moore, Jessica Horton, Jennifer Barranco

## Introduction

In Fall of 2016, the ENGR 215 class worked with The Sanctuary as their client. The Sanctuary—a nonprofit organization in Arcata that promotes sustainability and creativity—sought a way to distribute an abundance of food donations from local farms to the community. This new method of distribution would need to be more accessible and effective than their previous method of distributing food from their kitchen basement. The A-Team designed and built the Abundant Free Food Kiosk as a solution to The Sanctuary’s distribution problem.

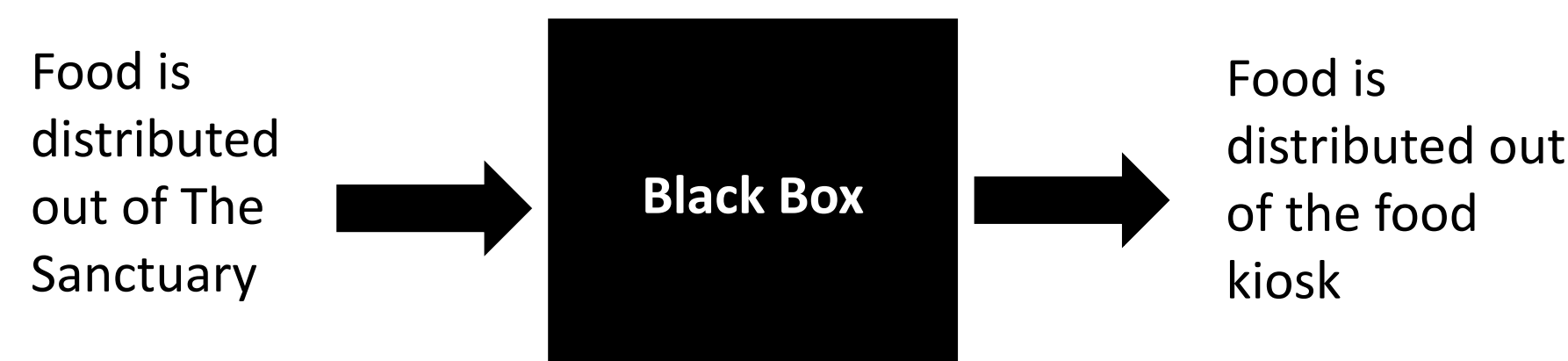


Figure 1-2 Black Box Model of The Abundant Free Food Kiosk

Criterion	Weight
Safety	10
Public Accessibility	10
Critter Proof	10
Durability (10 yrs)	8
Aesthetics	6
Replicability	5
Cost	3

Table 1-1 Weighted Criterion of project

Back doors give The Sanctuary a convenient way of storing food inside the kiosk

Slanted roof covered in pond liner protects the kiosk from rainwater

Chalkboard paint on front doors allows The Sanctuary to list the contents of the kiosk



Figure 1-3 The final project

Frame lifts the kiosk to street level and provides stability

Cross bars screwed onto frame give stability to the stand

Front doors give the public access to food inside of the kiosk

Kiosk is level with the sidewalk for easy accessibility

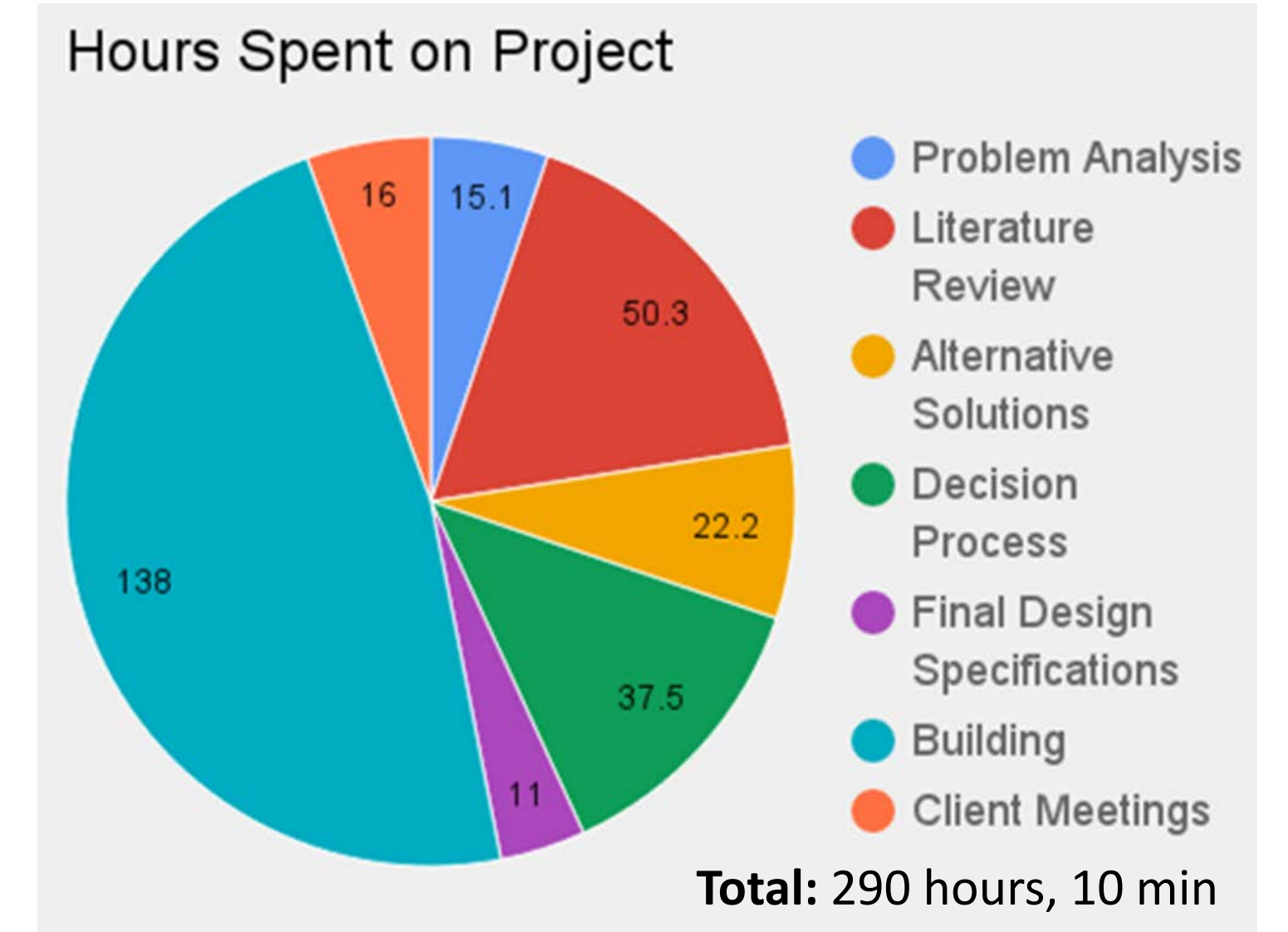


Figure 1-4 Total hours The A-Team spent on the project

Material	Time	Annual Cost
Disinfectant wipes	5 minutes (monthly)	\$5.00
General parts for replacement	2 hours (annual)	\$10.00

Table 1-2 Maintenance cost and frequency

Material	Cost
2x4's	Donated
2x2's	Donated
Plywood	Donated
Wood glue	Donated
Screw Driver	Donated
Screws	Donated
Waterproofing wood spray	Donated
Insulation	Donated
Cabinet Handles	Donated
Paint (colors)	Donated
Paint (chalkboard)	\$15.00
Paint (gloss)	Donated
Tape measurer	Donated

Table 1-3 Materials cost chart