

The rising STAR of Texas

Problem Statement

To mitigate inventory losses from supply chain interruptions due to COVID-19, CTFB must make a financial investment towards declining product categories and optimize delivery routes to better support Central Texans in need.

Project Purpose

Determine where the food bank should allocate financial investment in order to supplement Inventory losses and optimize routes to better support growing agencies.

Project Objectives

Determine which and how many of the 32 product categories to procure Develop a model to optimize partner agency delivery routes

Group #I1.02 – CTFB Inventory and Route Optimization

Adaora Anagbogu, Cross Mitchell, Leo Montoya Jeff Gonzales

Information



0 > X ≥ X ≥ X ≥ X ≥ **\$1 S1 S1**



Performance Metrics	
etric 1: Difference of eight (Food Received - od Distributed = X)	Score
> X	1
≥ 0.25 million lbs.	2
2 0.50 million lbs.	3
≥ 0.75 million lbs.	4
≥ 1 million lbs.	5
etric 2: X = Total istance Travelled	Score
1.30X > C	1
.30X = C	2
1.30X < C	3

Where C = Current Transportation Cost

Future Plans

 Complete Analysis Research and select route optimization model Formulate models Ensure model feasibility

Acknowledgements

Sponsor Jeff Gonzales Director of Operations Point of Contact Stephanie Cosmas **Operations Project Manager** Instructor Dr. Michelle Londa, Ph.D. Associate Prof of Practice Faculty Sponsor Dr. Clara Novoa, Ph.D. Associate Professor