

# OAZA

CONNECT, MOBILIZE AND NOURISH

A mobile application enabled by machine learning and a love for community and food.

**CREATORS:** Donna Le & Emily Dang

# The Problem

12.3%

U.S. households with low to very low food security<sup>1</sup>

**Food Deserts:**

geographic areas where nutritious and affordable food is difficult to obtain

Slightly more than half of U.S. farms are very small, with annual farm sales under

**\$10,000**<sup>2</sup>

Small organic farmers have more difficulty finding buyers than large organic operations.

1. USDA. Economic Research Service, using data from the December 2016 Current Population Survey Food Security Supplement

2. Farming and Farm Income." USDA ERS - Farming and Farm Income, [www.ers.usda.gov/data-products/ag-and-food-statistics-charting-the-essentials/farming-and-farm-income/](http://www.ers.usda.gov/data-products/ag-and-food-statistics-charting-the-essentials/farming-and-farm-income/)

Food Desert  
Communities

Our Solution

**Connect the two  
Communities**

Small Family  
Owned Farms

# The Connector: **MOBILE MARKETS**

Optimize and Sustain  
Mobile Markets

**Using 2 tools**

## **MACHINE LEARNING**

### **PREDICT & IDENTIFY**

- When food deserts will happen
- Trends of opening/closing of supermarkets in communities
- Communities that have been identified as food deserts

## **OAZA MOBILE APP**

### **VISUALIZE & CONNECT**

- View food deserts and local farms on one map
- See specific community and farm demographics
- Create and save farm contact list

# UN Sustainable Development Goals

**2** ZERO  
HUNGER



**8** DECENT WORK AND  
ECONOMIC GROWTH



# The Team



**Donna Le**, Technical & Research Lead

Donna is a senior at Syracuse University studying Computer Science. Passionate about diversity in tech and social impact, Donna spearheaded the research for this project and interviewed professors and students who have studied or lived in food deserts. Donna also led technical specifications and prototyping efforts for the Oaza application.



**Emily Dang**, Product Development Lead

Emily is a 2017 graduate from Syracuse University who studied Information Technology and International Relations. Passionate about enabling people around the world through technology and design, Emily led the ideation process of the user journey in the Oaza application and presentation. Emily also curated the look and feel of all project assets.

# Thank You

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