

# A SUSTAINABLE FOOD HUB IN LAS PIÑAS

The thesis entitled "A Sustainable Food Hub to Enhance Community Nutrition Through Urban Crop Production in Las Piñas" proposes urban crop production as the main solution to alleviate fragilities in the urban food system. Along with this solution, is a food systems approach and a focus on community nutrition enhancement.

### MAIN ISSUE/S & PROBLEMS

RAPID URBANIZATION &
EXISTING FOOD SUPPLY CHAIN

FRAGILITIES OF THE
URBAN FOOD SYSTEM

Malnutrition;
Unstable Food Supply;
Negative Environmental
Impacts of Traditional Farming

Urban food systems continue to face challenges along with urbanization. With this, the negative climate change effects have compounded and exacerbated the issues faced by urban communities. In the context of Metro Manila, rapid urbanization and the current state of the food supply chain have been identified as causes of fragility in urban food systems.

Rapid urbanization results in a dietary shift to nutrient-poor foods as it becomes more convenient and accessible. In turn, negative health effects due to undemutrition are becoming more prominent in urban dwellers. As for the food supply chain, its current state is characterized by: food production sourced in rural areas which are vulnerable to natural disasters; traditional food production that has significant negative environmental impacts; inefficient farm-to-market roads; and inaccessible food products due to high price points. Furthermore, the perceived issues in the urban food system are narrowed down to three major problems: malnutrition, unstable food supply, and negative environmental impacts of the existing urban food system.

## SOLUTION





URBAN CROP
PRODUCTION
FOOD SYSTEMS APPROACH



# SUSTAINABLE FOOD SYSTEM (FAO, 2014)



### FOOD SYSTEM (FAO)

# MAIN GOALS Design spaces for furtifition promotion and education are stable and resilient supply of vegetable produce Reduce negative environmental impacts in the existing urban food system

Create spaces that foster economic opportunities and growth as well as technical support regarding urban agriculture in the community

> Design spaces that promote universal access, affordable, and healthy and environmentally sustainable diets

Integrate technological advancements for energy efficient urban food production and strengthening of biological diversity of crops

RESILIENT FOOD SYSTEM (FAO, 2020)

### **CONCEPTS & PARTI DIAGRAMS**



FLOW



INTERCONNECTED



PERMEABLE

# USER ANALYSIS



Residents of Las Piñas - District 1 Population: 296,090

Residents of the following barangays: (Population: 124,917)

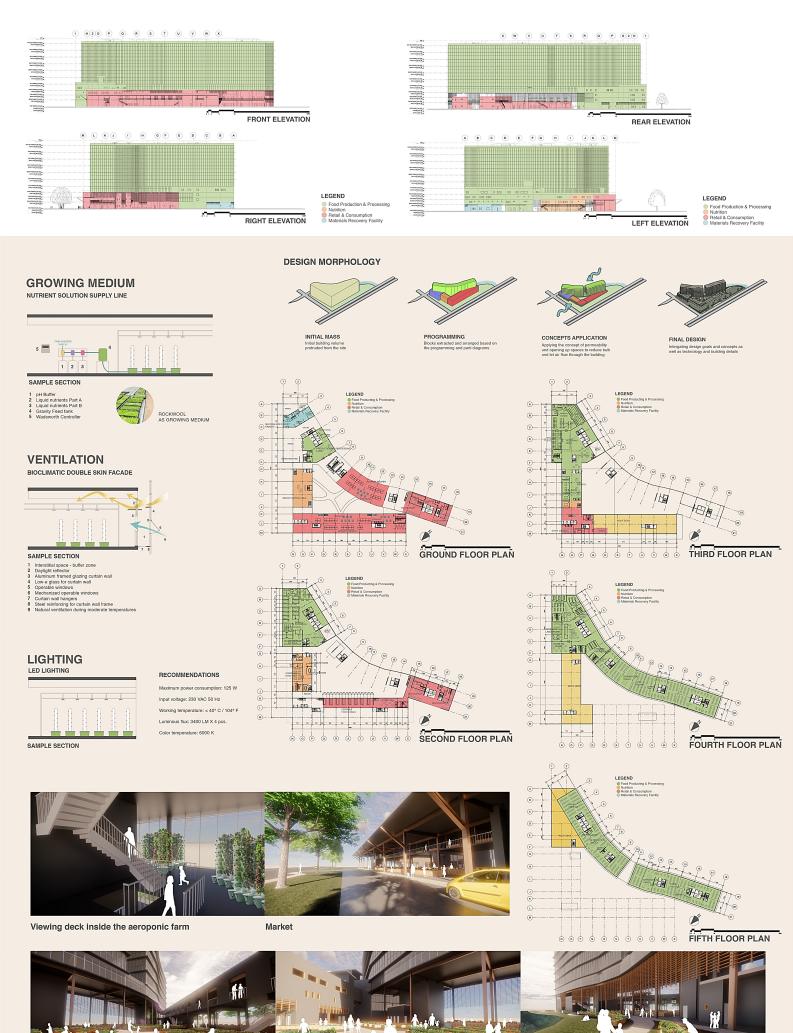
Ilaya B.F. International Daniel Fajardo Elias Aldana Zapote

Public health concern on various age groups for stunting; underweight; wasting ;anemia; iodine status; physical inactivity

Dietary deficiencies in nutrients due to the majority of food consumed being refined rice and other low nutrient-dense foods

Inadequacy of the following nutrients: iron, folate, riboflavin, calcium, vitamin c, thiamin, and vitamin a Intake of cereal and cereal products and vegetables were low in Metro Manila

110 grams of veggies consumed (recommended amount is 170 grams daily)



Community Farm Promenade