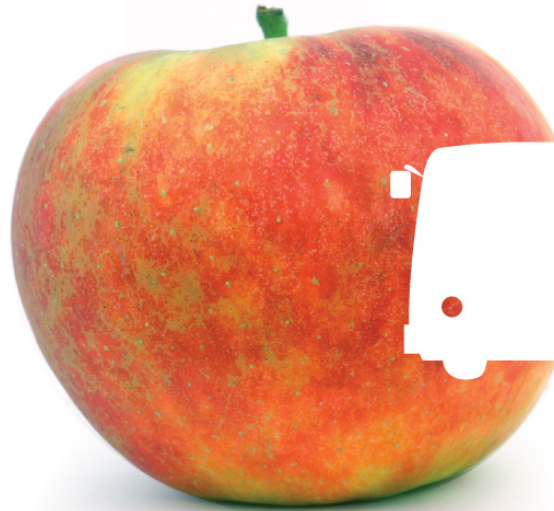


IPRO 315



TRANSIT FOODS
TAKING A BITE OUT OF HUNGER

Problem Statement

The current food bank / food pantry system relies on an inefficient distribution methodology. Not enough food reaches enough people in enough time.

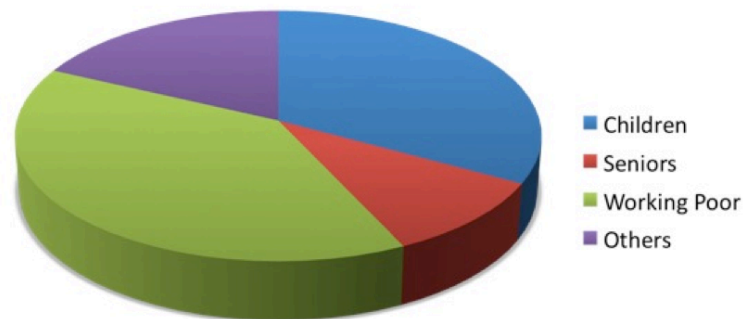
Proposed Goal

IPRO 315 is examining the utilization of existing infrastructural transportation systems in Chicago in order to promote the more efficient production and distribution of food to supply the existing food pantry system.

Hunger Issues and Challenges

- Growing Demand
- Changing the face of hunger
- Nutrition – Not just calories, healthy calories
- Sources and types of food

The face of Hungry People may surprise you...

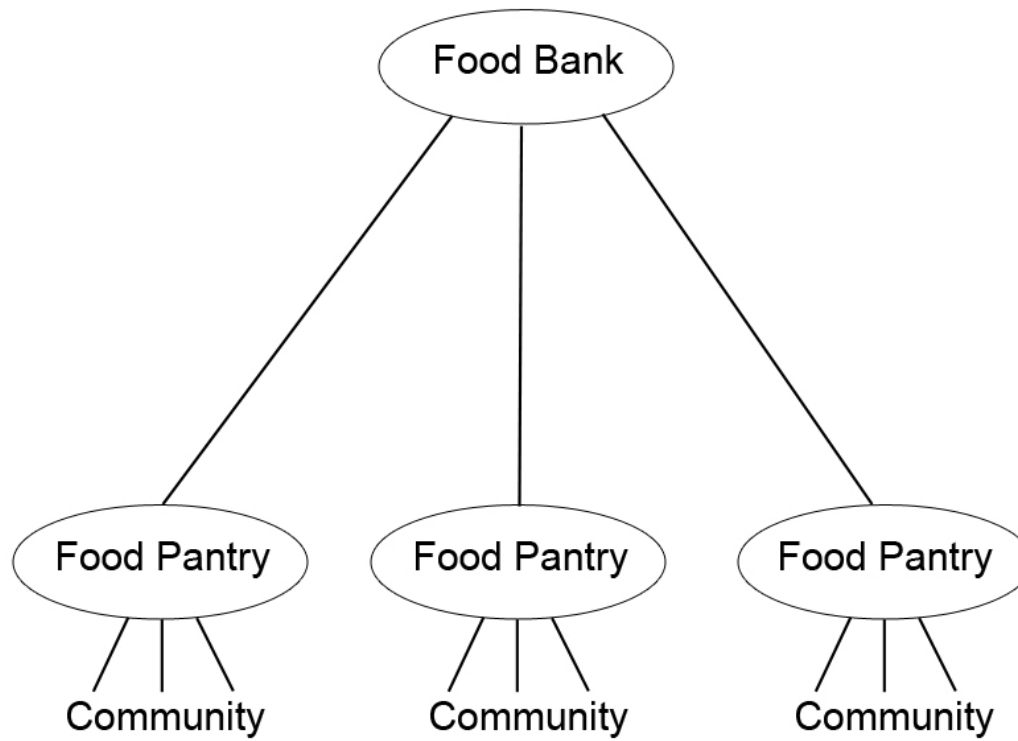


Greater Chicago Food Depository

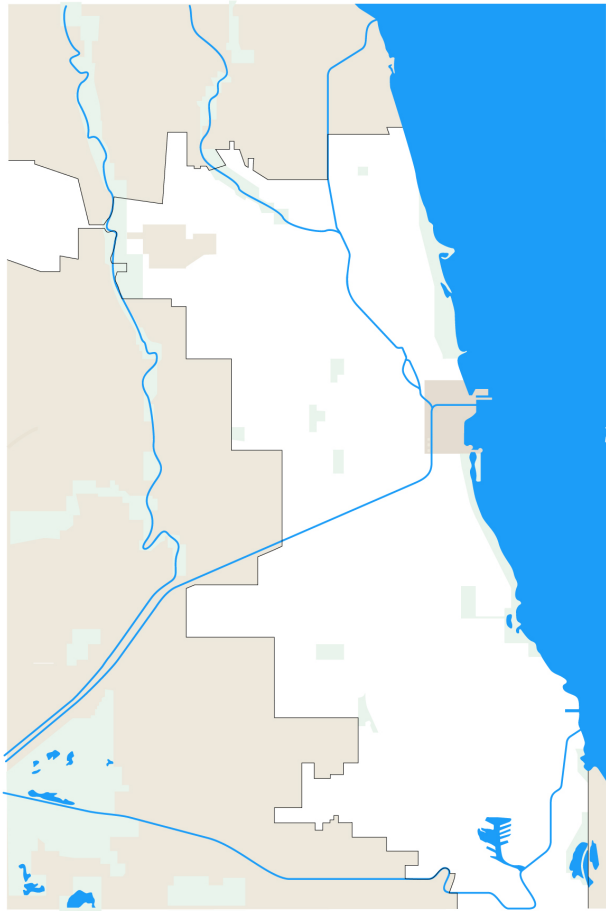
- One county
- 5.3 million people
- 600,000 below poverty level
- 58 million pounds of food
- 650 agencies
- 140,000 people each week



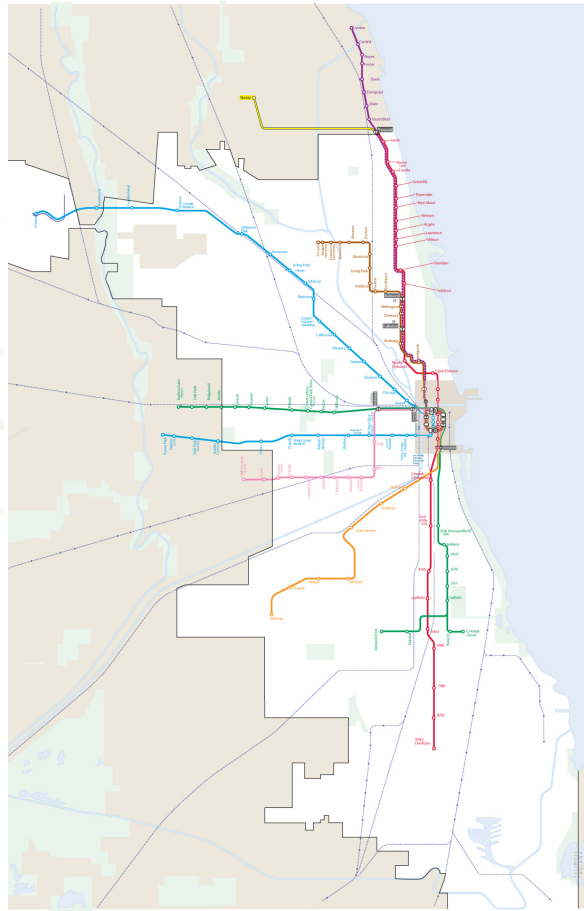
Food Web



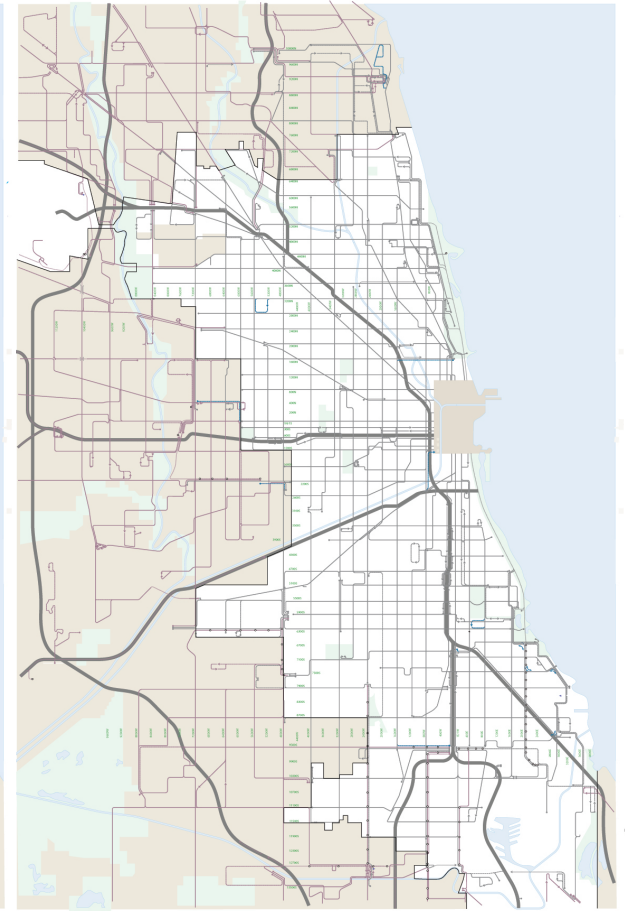
RIVER



RAIL



ROAD

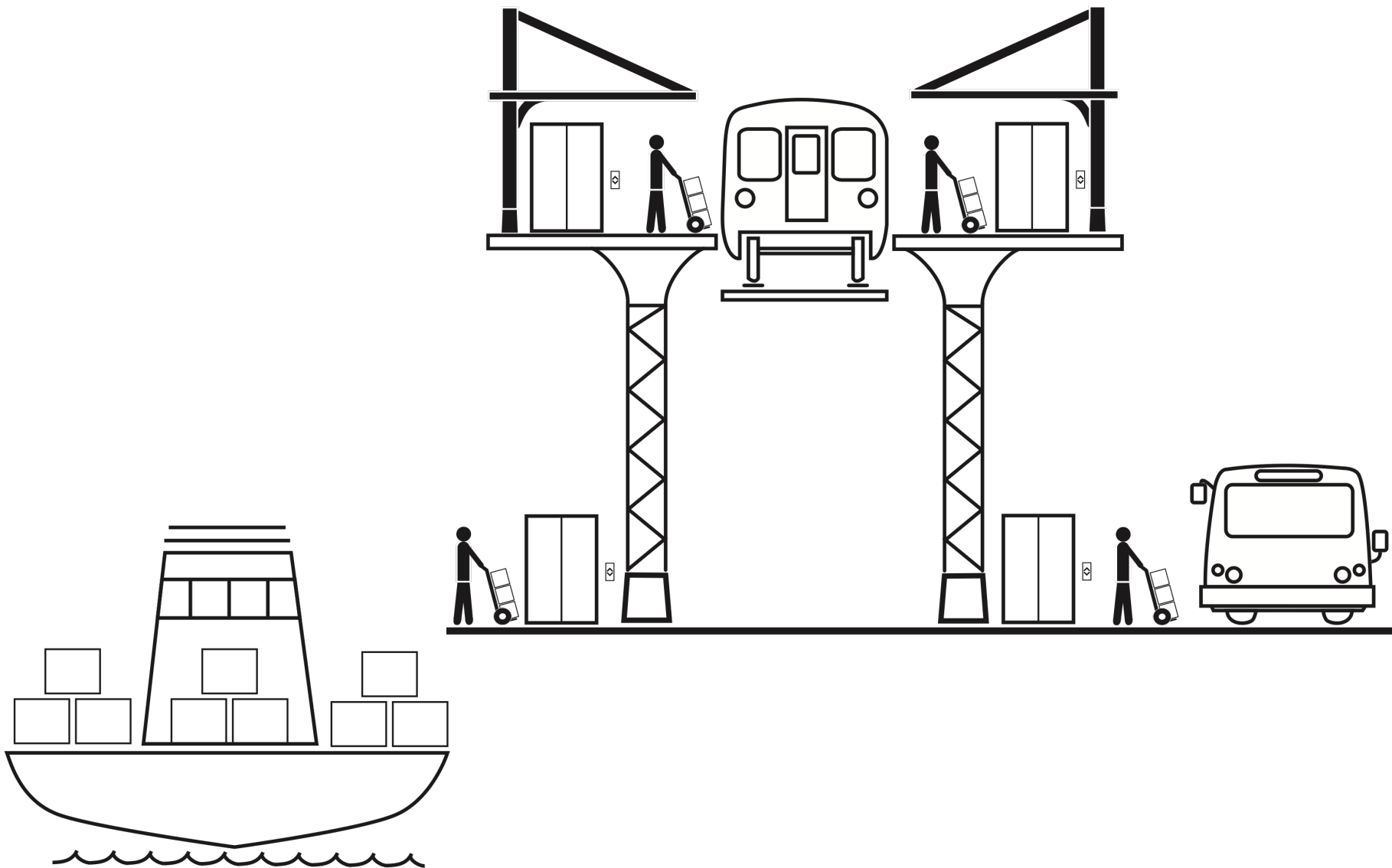


BARGE

TRAIN – CTA & RTA

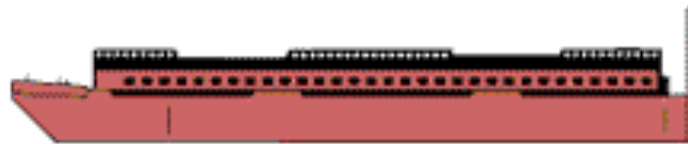
BUSES

Connecting Barge to Bus by Train
Using Existing Infrastructure



Efficiency

How Many Miles Will 1 Gallon Take 1 Ton of Cargo?



by barge..... 500 miles

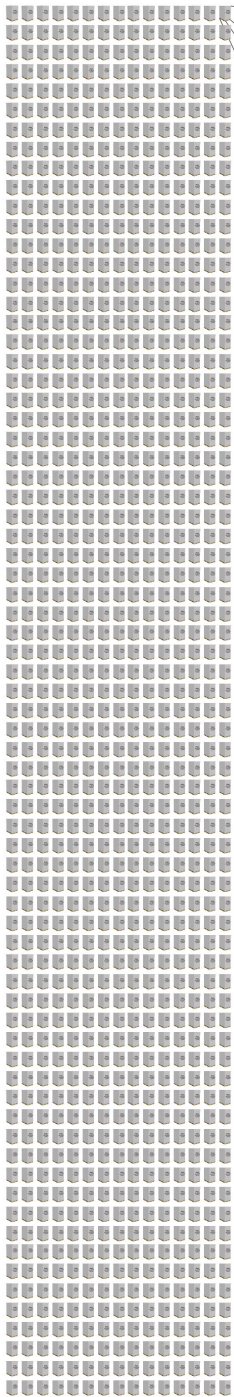


by rail..... 200 miles



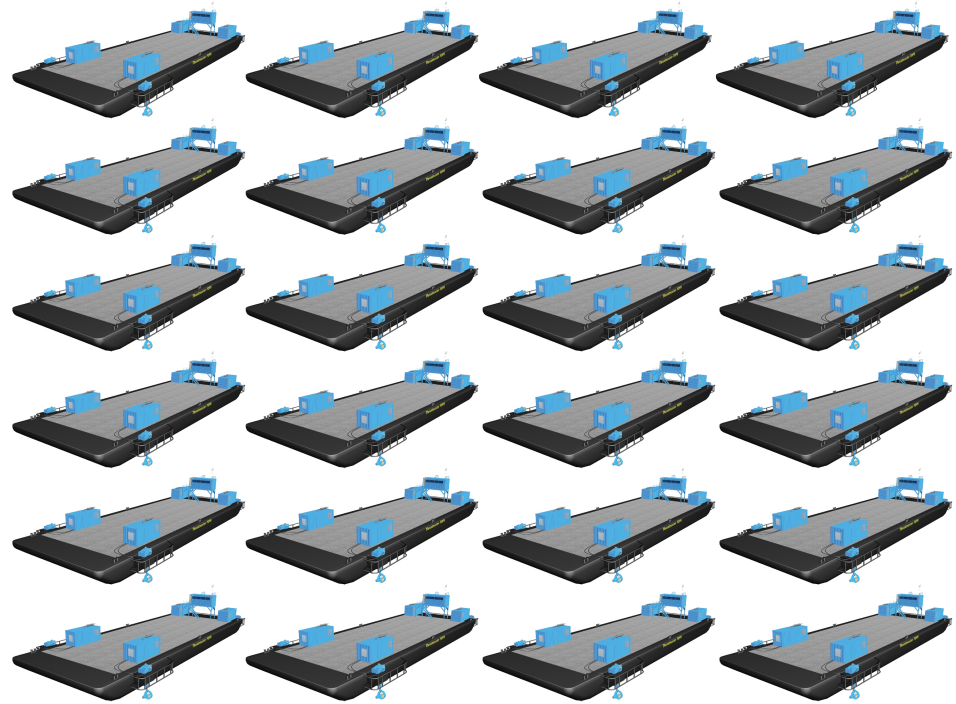
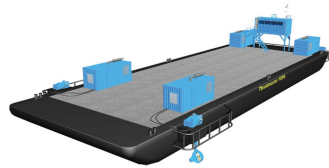
by truck..... 60 miles

River System



= max 2200 lbs
per pallet

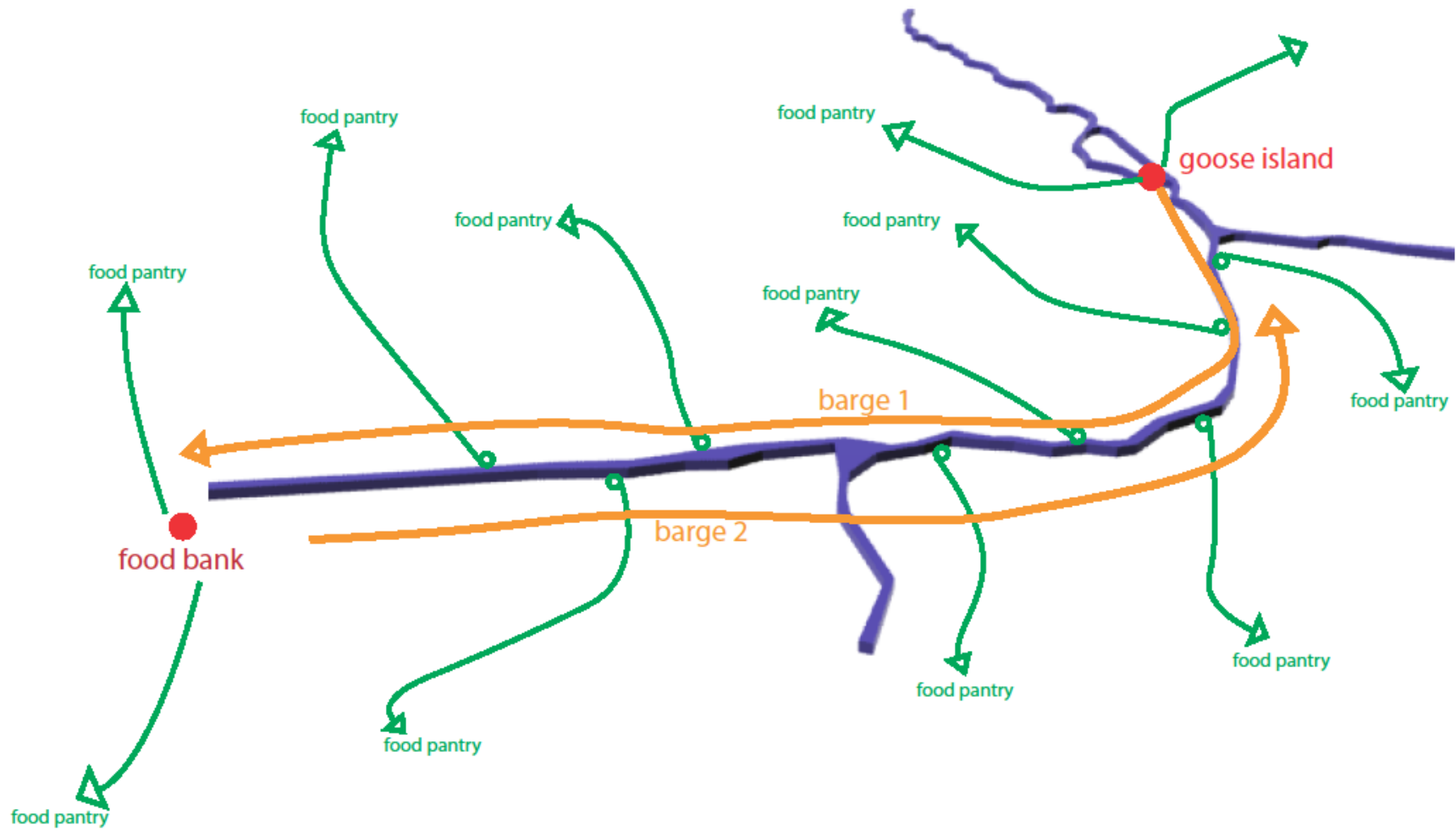
Feasibility of Barges



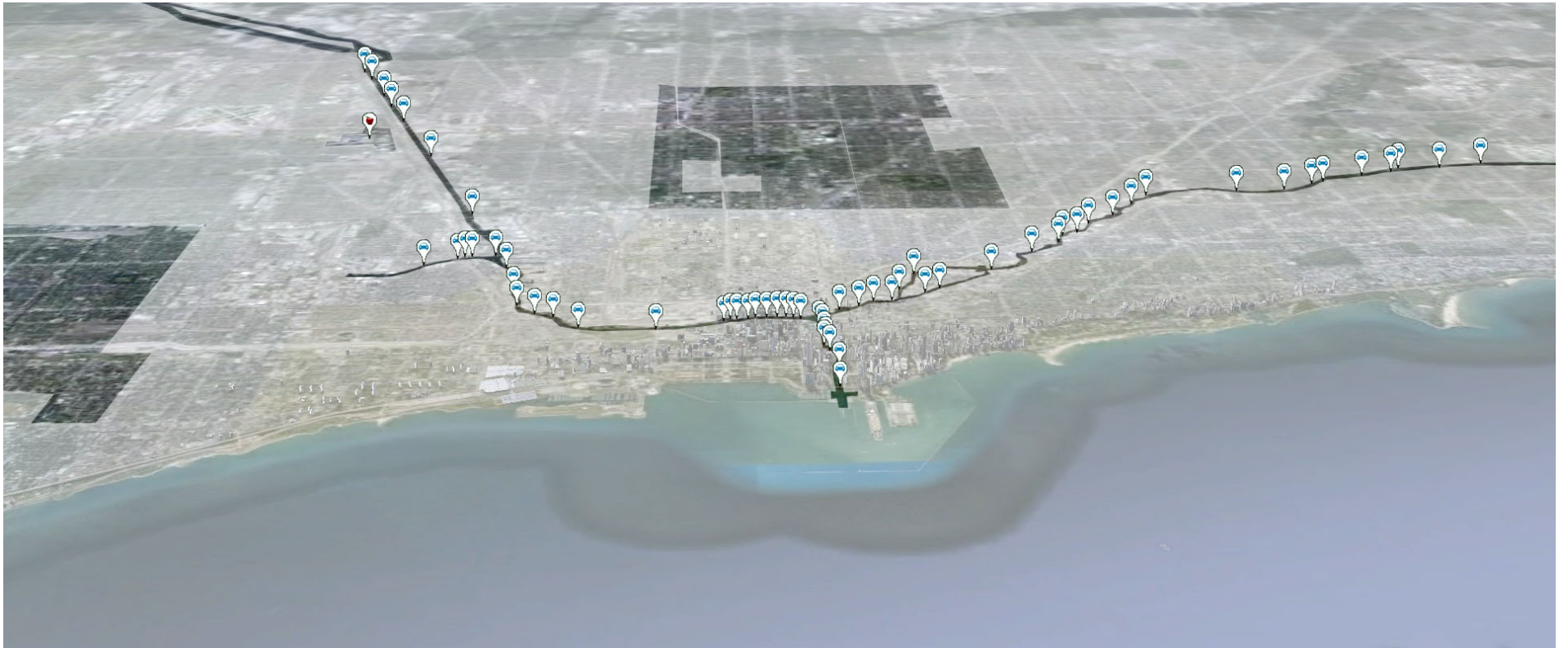
= 1080 pallets per barge
2,376,000 lbs total

= 5.3 million
fed per year

Proposed Transportation System

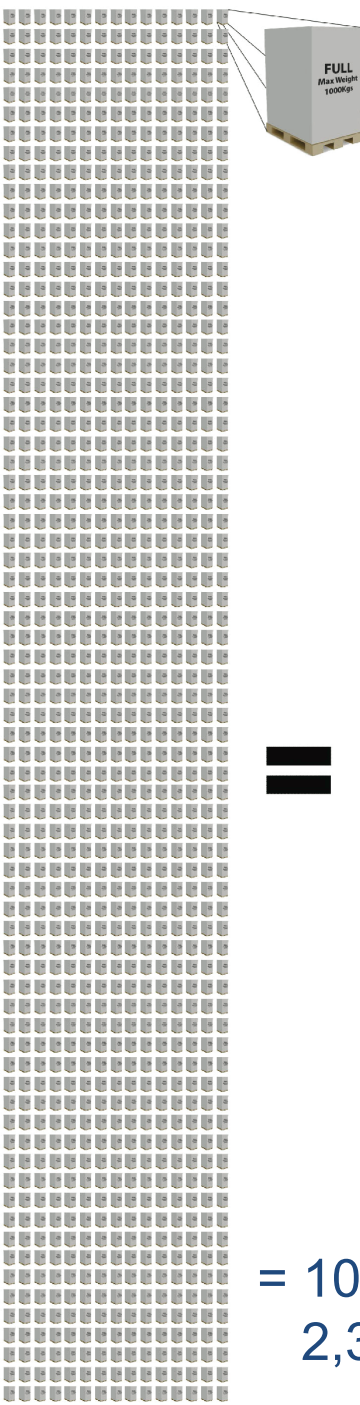


Pick Up Cross Points




Rail System

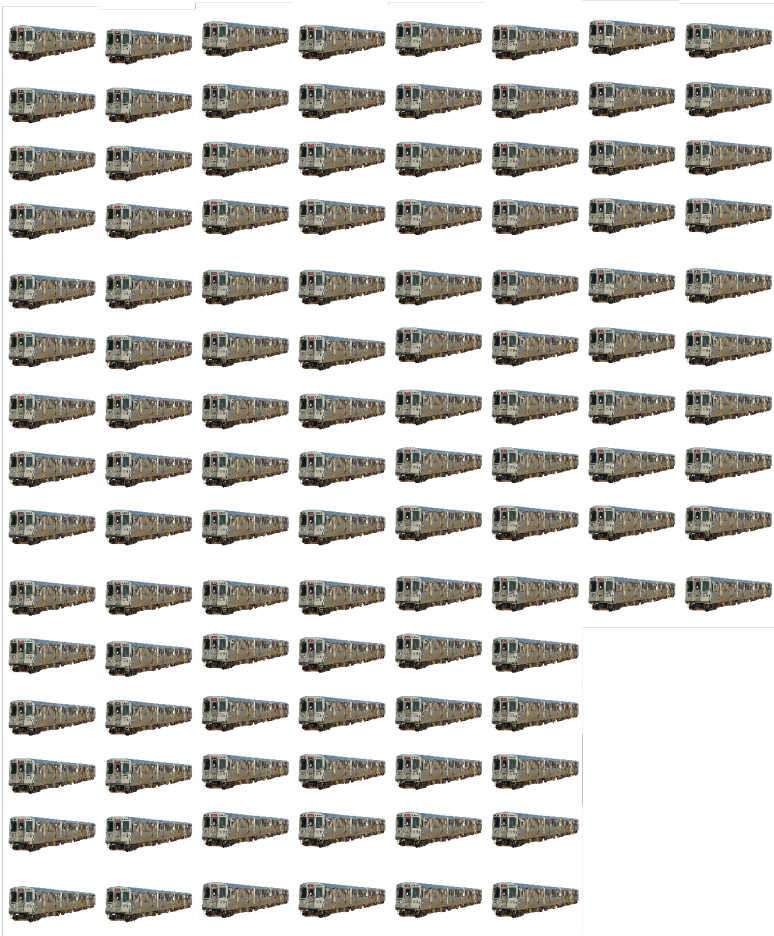
Feasibility of CTA 'L' Train




= max 2200 lbs per pallet



= 1080 pallets 10 trains
2,376,000 lbs total



=

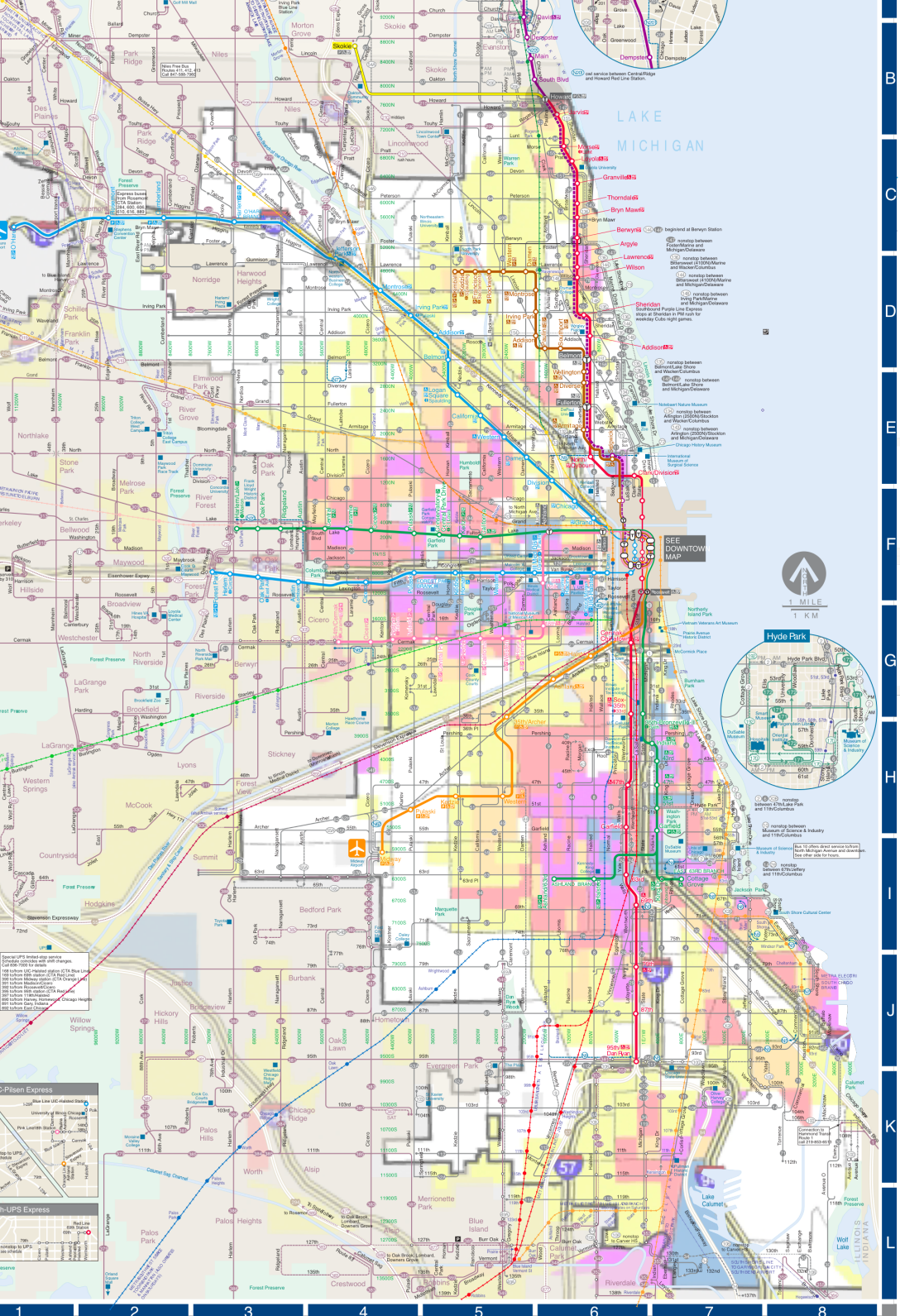


= 5.3 million fed per year

Train Efficiency

- The trains travel over 400,000,000 more passenger miles than the bus system
- Efficient
- A CTA train car can carry over 9,000 lbs of food





- CTA Trains Stations**
 Trains operate daily unless noted.
- Blue Line: Blue Line, O'Hare, Downtown, and Forest Park
 - Brown Line: Brown Line and Downtown
 - Green Line: Green Line, O'Hare, Downtown, and 63rd Street terminals
 - Orange Line: Orange Line, Midway Airport and Downtown
 - Pink Line: Pink Line, O'Hare and Downtown
 - Purple Line: Purple Line, O'Hare and Downtown
 - Purple Line Express: Purple Line Express, O'Hare and Downtown, service not every day
 - Red Line: Red Line, O'Hare, Downtown, and 95th-Cook County
 - Yellow Line: Yellow Line, O'Hare and Downtown
- Metra Commuter Rail**
- Station served daily
 - Station served weekdays
 - Station served weekdays rush periods only
- Other Symbols**
- Point of interest
 - Park & Ride lot
 - Expressway or tollway
 - Chicago street numbers
- Chicago street numbers start at State and Madison downtown. State Street divides east and west addresses. East Madison Street divides north and south addresses. Suburban street numbers vary, not all use Chicago system. One mile is equal to 800 street numbers. Example: Montrose (4400 N) is one mile north of Addison (3600 N).

Chicago Illinois % living in Poverty

- No Data
- 0-9
- 10-19
- 20-24
- 25-34
- 35-49
- 50-100

B
C
D
E
F
G
H
I
J
K
L

1 2 3 4 5 6 7 8

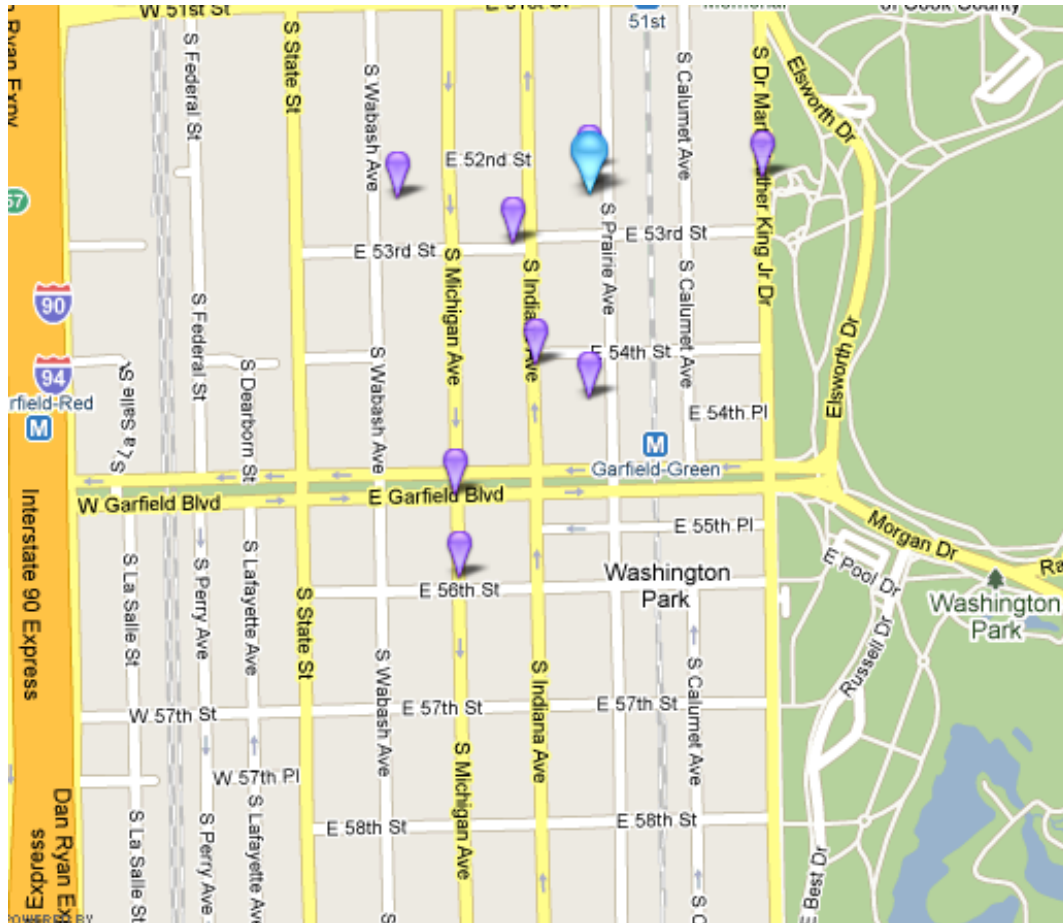
Road System

Utilizing Roadways

- Existing infrastructure
- Reusing retired CTA buses
- Efficiency
- Increased distribution
- Decreasing distance
- Utilizing vacant lots



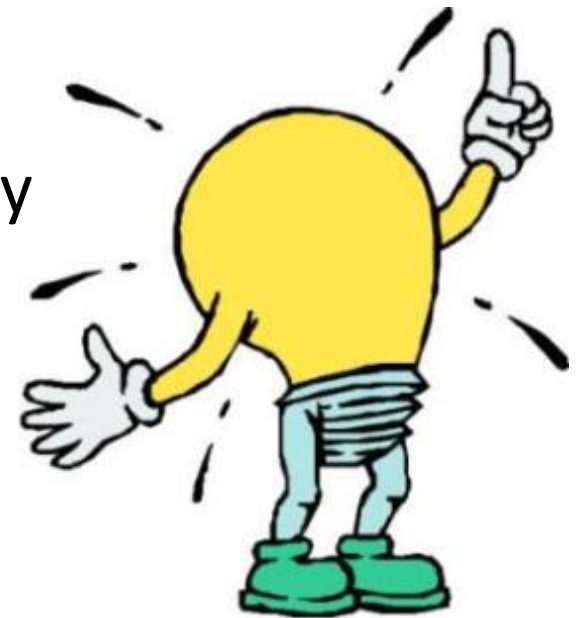
Hot Spots



- Train stop
- Bus stop
- Vacant lots
- Located in food desert

Major Obstacles Encountered

- Biggest challenges
 - coordination between systems
 - balancing feasibility with creativity
- Ethical dilemmas
 - maintaining the individual's dignity
- Did goals change
 - the emphasizing of education



Questions

