

# Concept

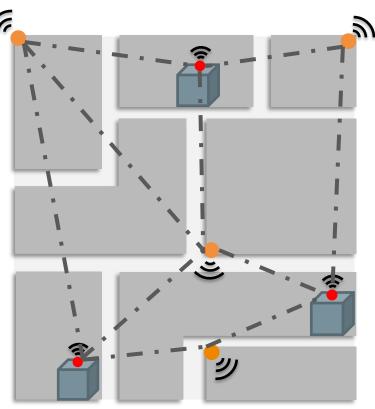
Proposal to tackle food insecurity along with proving supporting infrastructure to further digital inclusively in the City of Philadelphia.

# Food insecurity in Philadelphia 21% 17% of trash sent to the landfill is wasted food

### Food insecurity based on FAO



"Don't let the digital divide become 'the new face of inequality': UN"



Conceptually on a neighbourhood scale

## Users



**ERIK** 

Age: 41yrs.

Education: Highschool

**Background** Homeless

#### Needs

Meals regularly and govt programs for the homeless



Suzan Age: 69 yrs.

Education

School dropout

**Background** Living alone

Needs:

Community engagement



MAX

**Age:** 13 yrs.

**Education** 

8th Grade

**Background** 

Household with no consistent income

Needs

Wholesome meals



Miriam Age: 39 yrs.

Education

Grad

**Background** 

Income < \$20000 and single mother

Needs

Internet to look up govt. programs & meals for 2



Trey Age: 23 yrs.

Education

Attending community college

**Background** 

Doing part time jobs and studying

Needs

Access to internet to apply to jobs



Household of 4

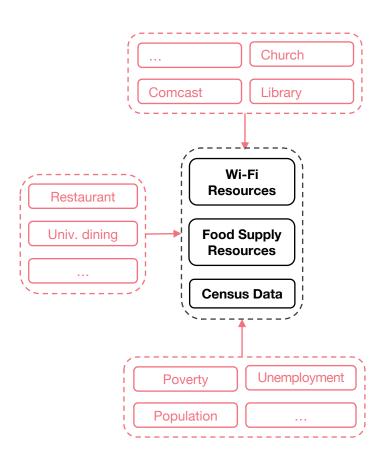
Mother, Father And 2 kids in K-12

**Background:** 

Household income < \$30000, one of the parent lost job recently

Needs:

Regularly meals Internet to apply for jobs



# **Step 1. Data Collection**



Wi-Fi Resources
Where needs more Internet
coverage



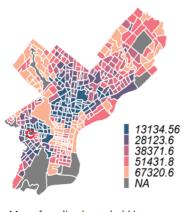
Food Supply Resources
Where and When to collect the food



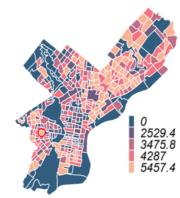
**Census**Where to send

### **Site location**

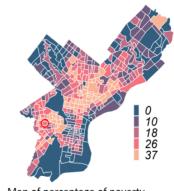
Detailed information of test bed site.



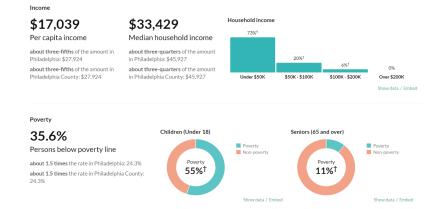
Map of median household income



Map of total population

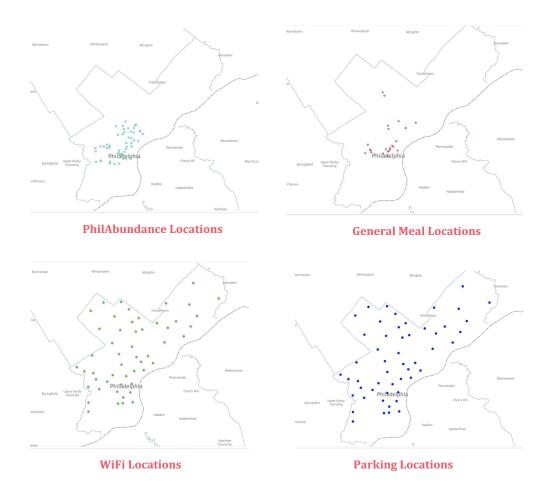


Map of percentage of poverty



Testbed: Census tract 85, bounded Market Street, South 50th Street, Pine Street and South 55th Street.

### **Data Presentation**



# **Parks and Rec** lorristown Whitemarsh Abington Cheltenham Moore Pennsauken Upper Darby Cherry Hill Springfield Township rthmore Haddon Haddonfield Voorhees Township for i in range(len(df\_parknrec)); par\_lat,par\_lonodf\_parknrec.iloc(i,-4:-2].values for j in range(len(df\_lib\_loc)); lib\_lat,lib\_lonodf\_lib\_loc.iloc(j,-2:].values dis=naversine((par\_lat,par\_lon),(lib\_lat,lib\_lon),unit=Unit.METERS) if dis==100: df\_parknrec.iloc[i,-2]+=1 df\_parknrec.iloc[i,-1]+=(df\_lib\_loc.iloc[j,0]+'\_')

