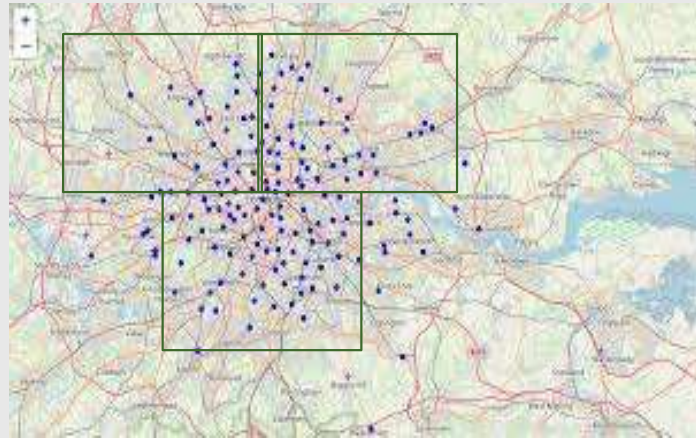# LONDON URBAN FARMING PLACEMENT PLAN

Claude Nortje

What is urban farming?

◦ Food production in towns, city centers and other densely populated areas

◦ Advanced modern farming techniques

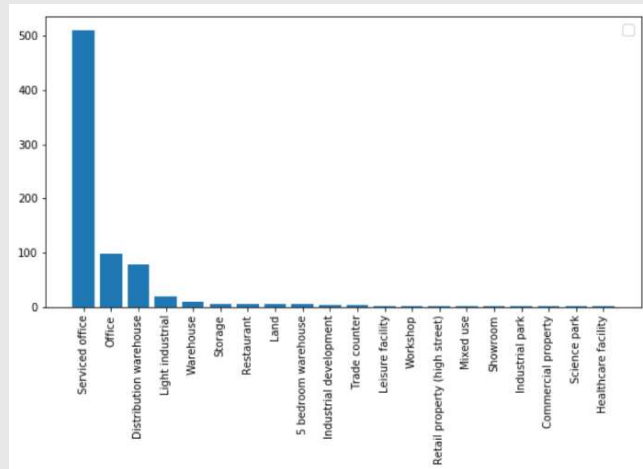◦ Environmental control and management

Core Focus

COMMERCIAL BUILDINGS
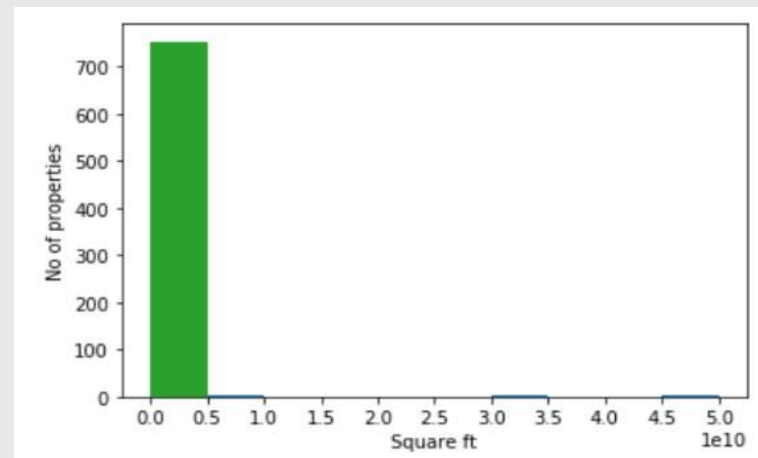
POTENTIAL CUSTOMERS

EMPLOYEES & COMMUNITY

Commercial properties

Types of
properties
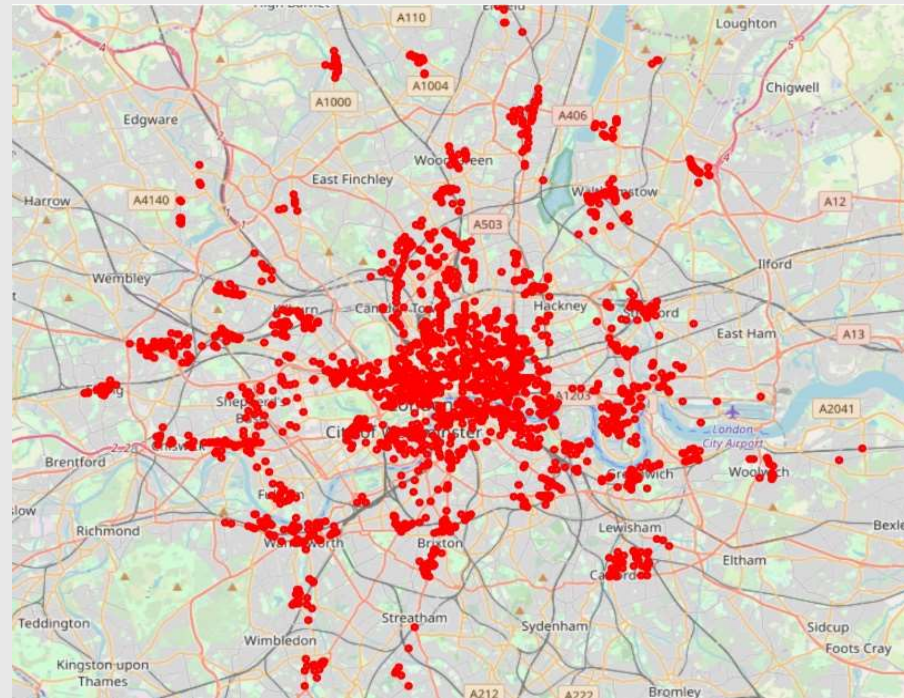

Properties
sizes
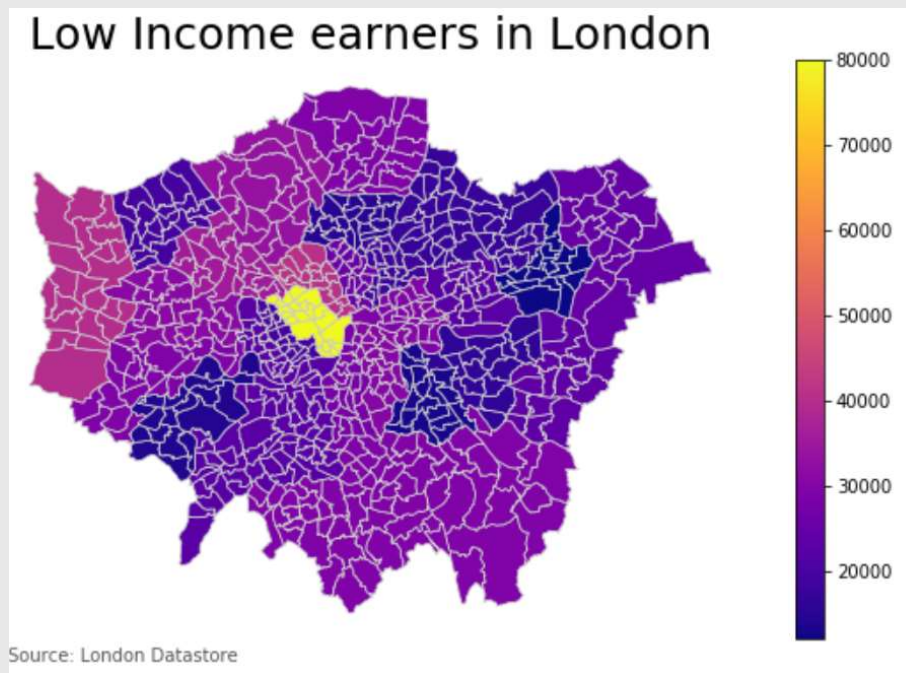
Potential customers

```
Top 15 customer categories of 2779 entries
'Grocery Store'          465
'Coffee Shop'            270
'Café'                   259
'Restaurant'              93
'Italian Restaurant'      86
'Pizza Place'             82
'Indian Restaurant'       75
'Bakery'                  74
'Fast Food Restaurant'    73
'Chinese Restaurant'      68
'Market'                  67
'Burger Joint'            56
'Sandwich Place'          53
'Supermarket'             42
'Pub'                     35
```
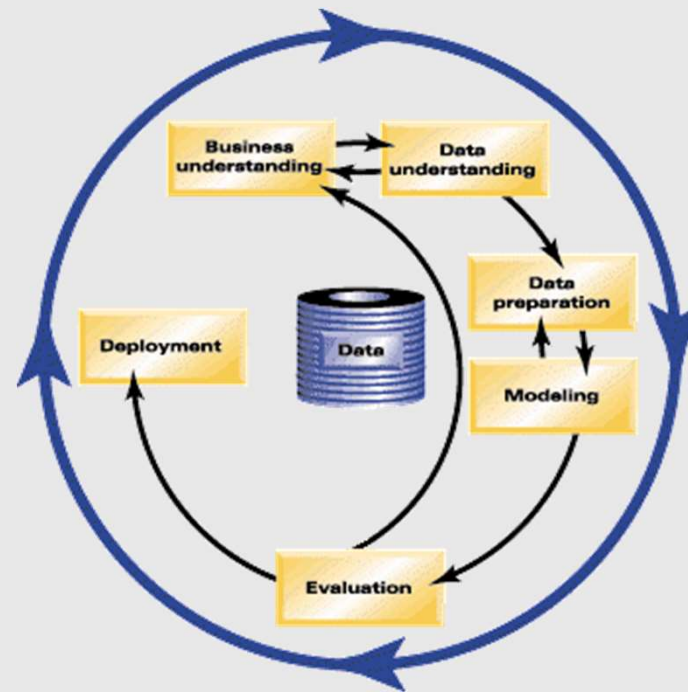
Employees & Community

Low Income earners in London
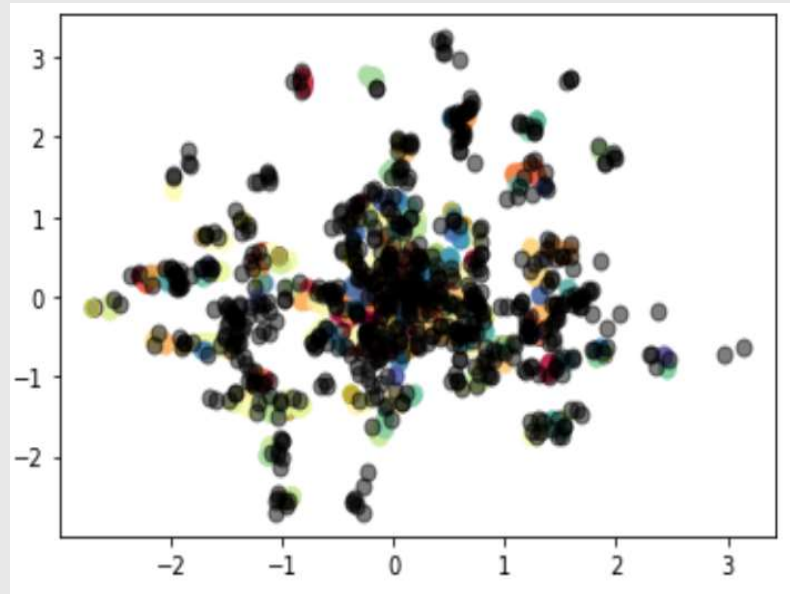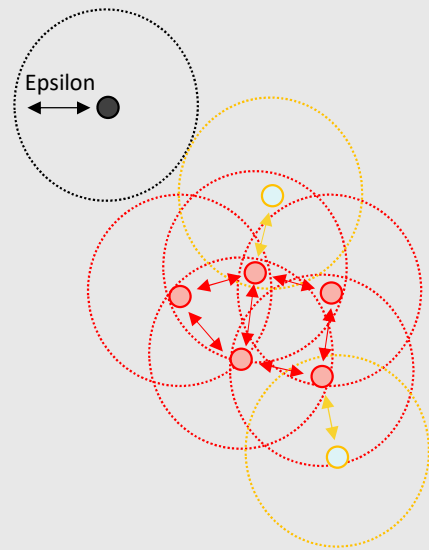
Source: London Datastore

Methodology – CRISP DM

- Business Understanding
- Data Understanding
- Data Preparation
- Modeling
- Evaluation
- Deployment

Algorithm - DBSCAN

Radius = Epsilon
MinPts = 3 (Selected point plus neighbours within its radius)
Core Point
Red point has at least 2 neighbouring points within its radius
Border Point
Yellow point has less than 2 neighbouring points within its radius
Noise Point
Black point does not have any neighbouring points within its radius

Results


```
# Number of clusters in labels,
n_clusters = len(set(labels))
n_clusters
```

```
226
```