## AI for Urban Sustainability Final Project Presentation

# Resting in Public Space:

Automatic Detection and Mapping of Seating

# Background

## Recharging in public space

When you're out and about, sometimes you just need a place to rest. It's important for accessibility of public spaces, too.

## **Information gap**

Finding a good place to sit in public can be hard. There are no maps you can check (yet).

#### **Diverse definitions**

Seating can look very different visually—from classic park benches to bus shelters—requiring a flexible and scalable approach.

# Approach

### **Delineate**

- Area of interest:Old City
- Targets of interest:
  Seating in public
  spaces

### **Train**

- Datasource: Google Street View images selected from every block
- Model: Mask R-CNN trained with hand-labeled Phila data

#### **Label & Show**

Mark road
 segments where
 at least one place
 to sit was found
 with 90%+
 probability

# Map

## **Example in progress**

- Fine-tuning level of spatial aggregation
- Potential threshold changes



