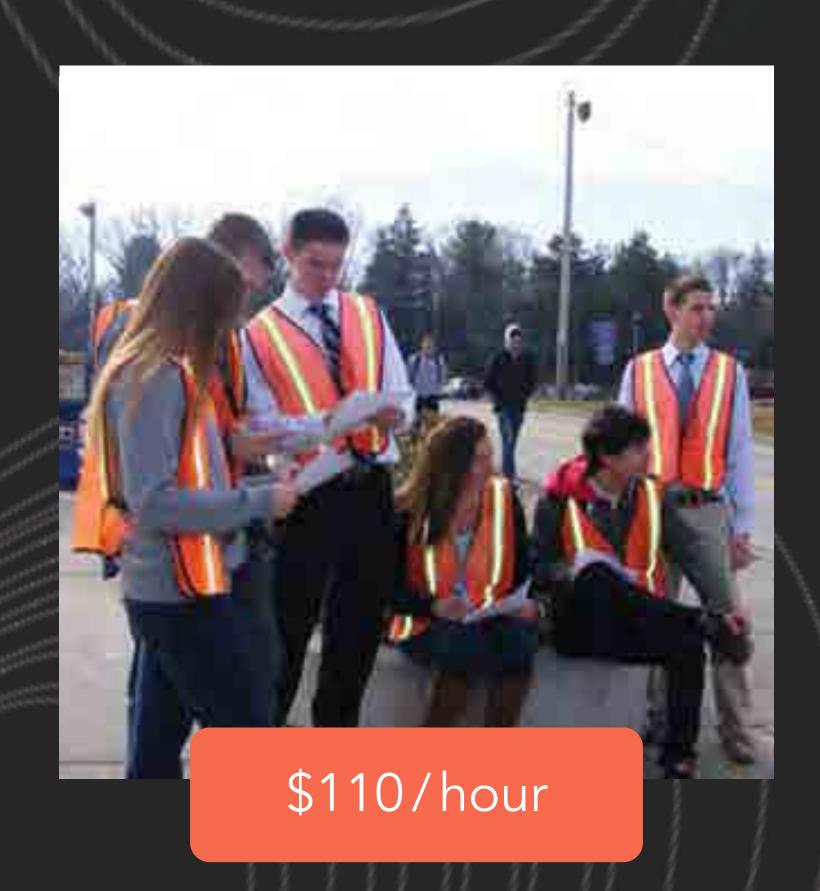
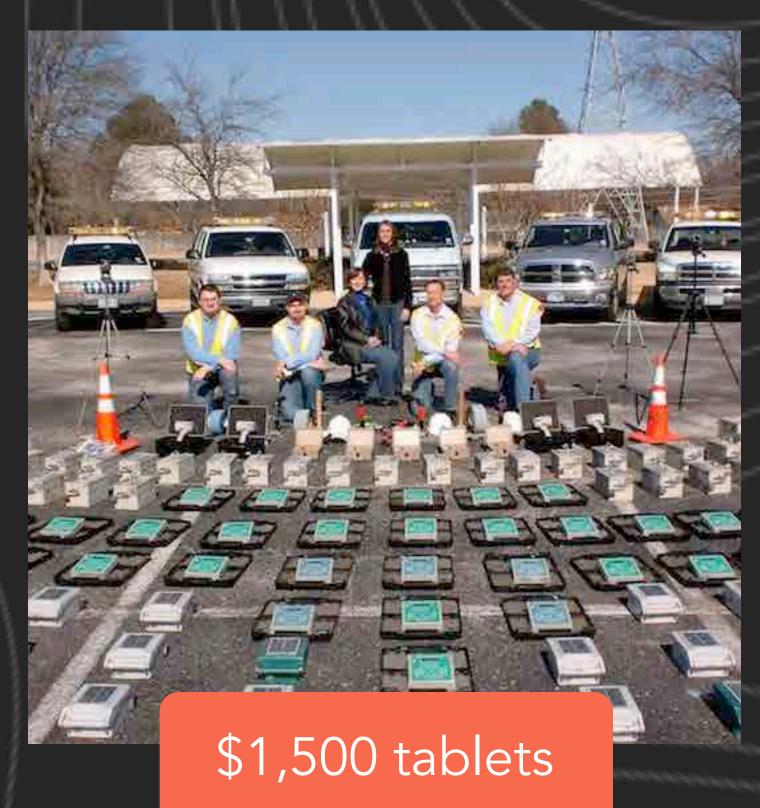
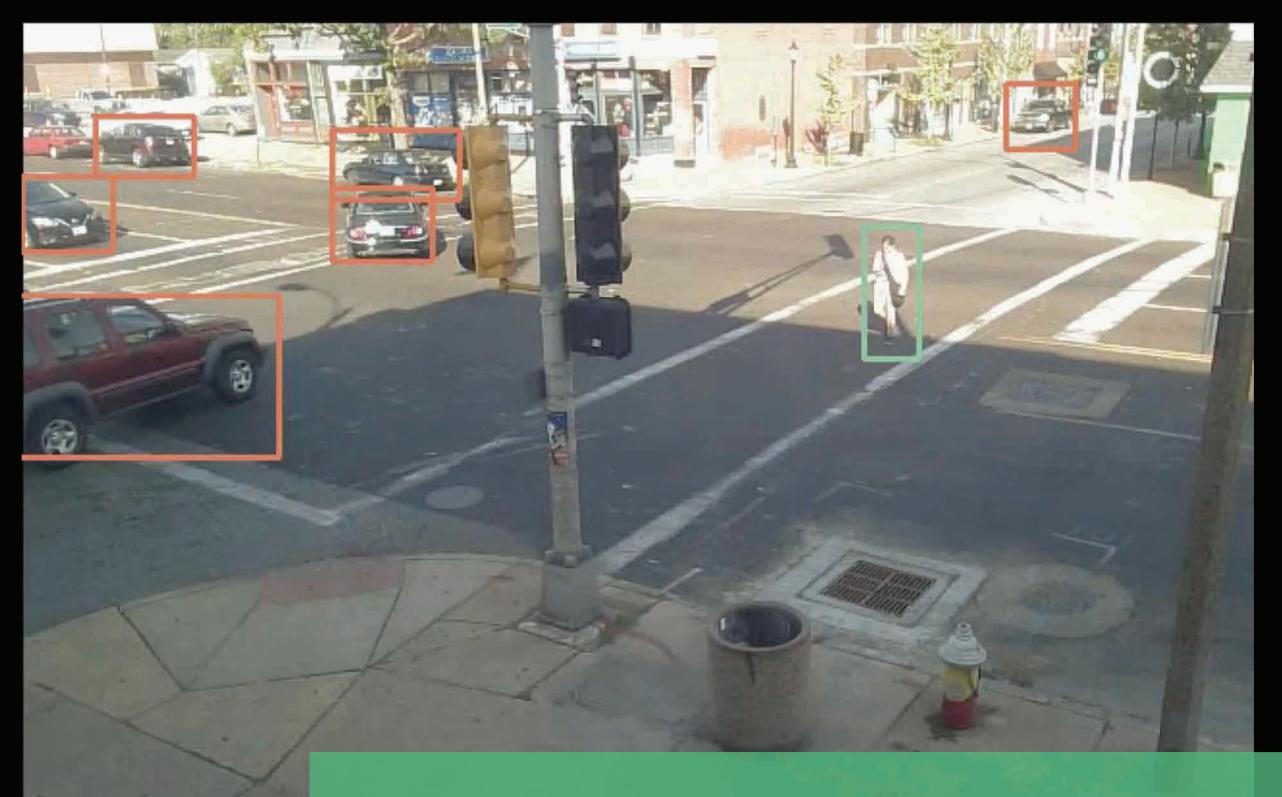
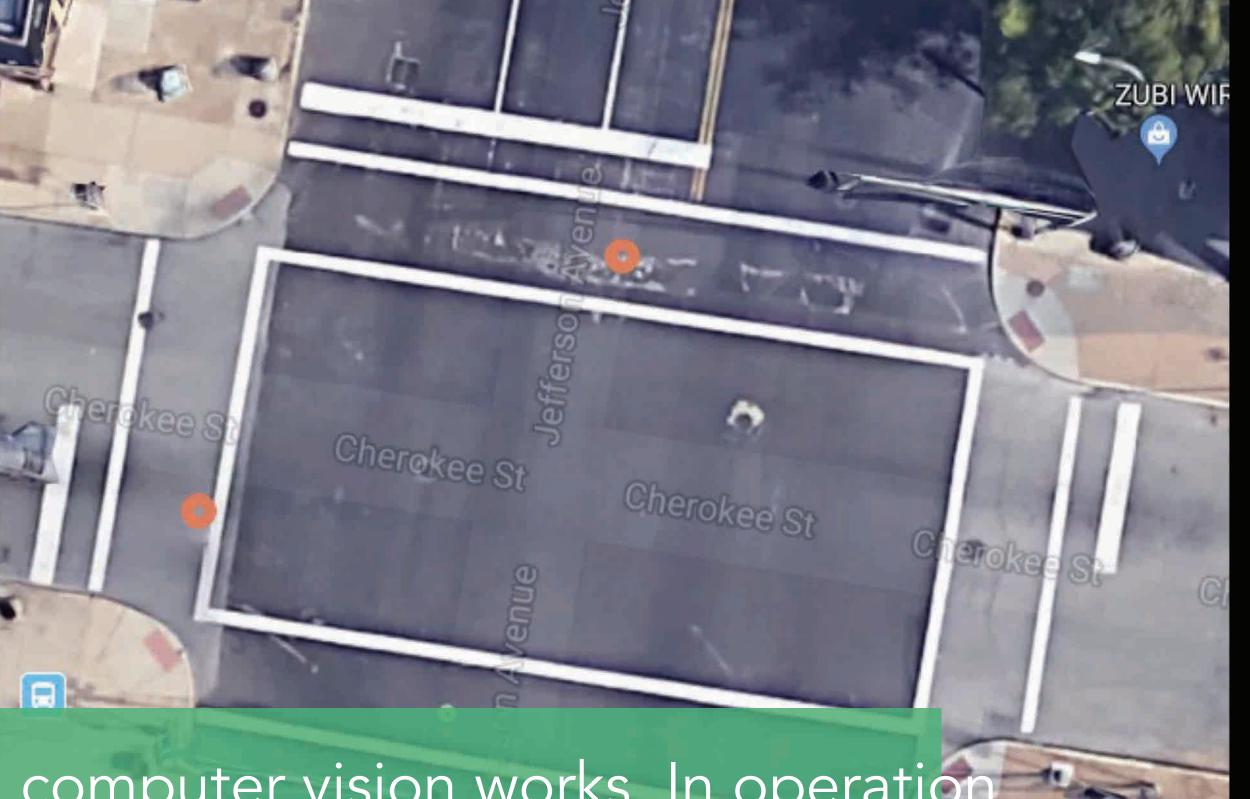


## Traditionally, cities have been measured like this:









This is only an example of how Numina computer vision works. In operation Numina never stores video or collects personally identifiable information.

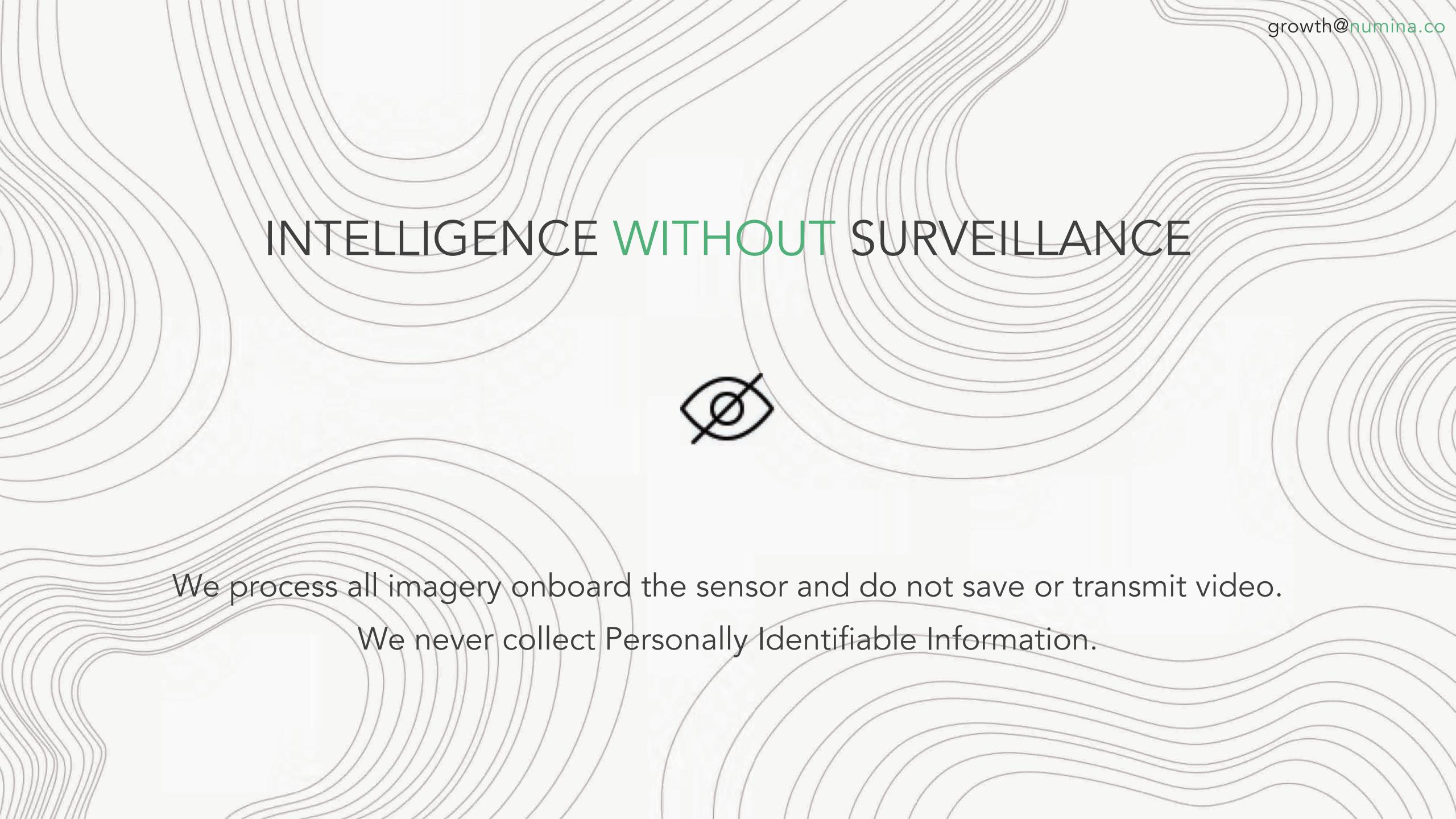


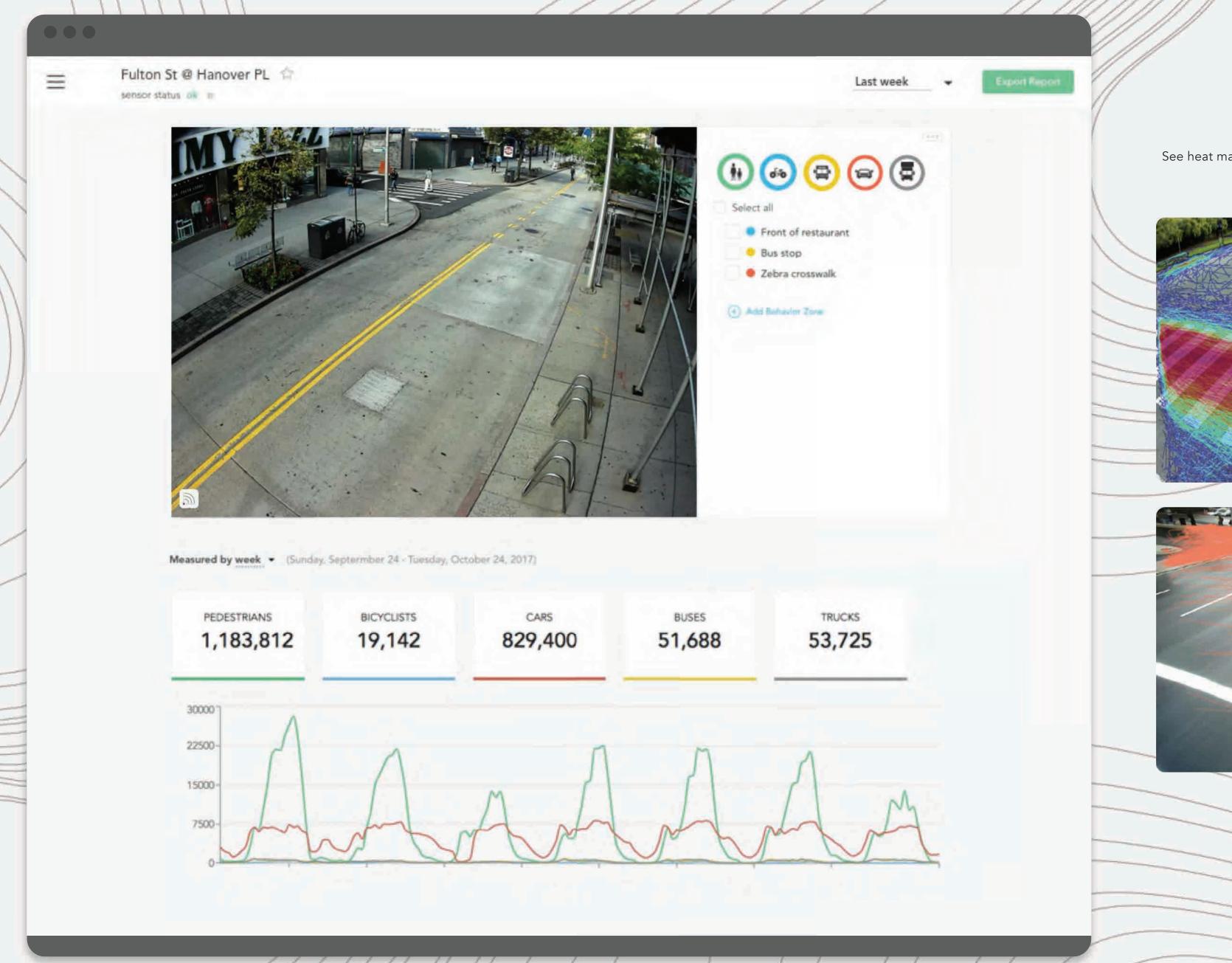




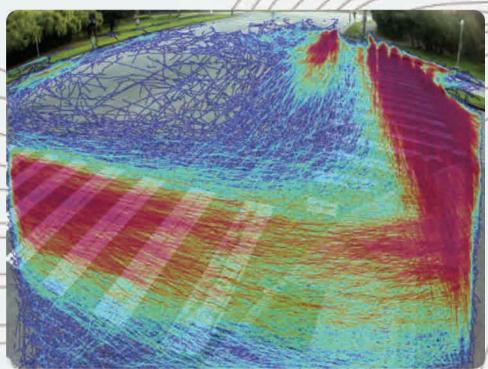




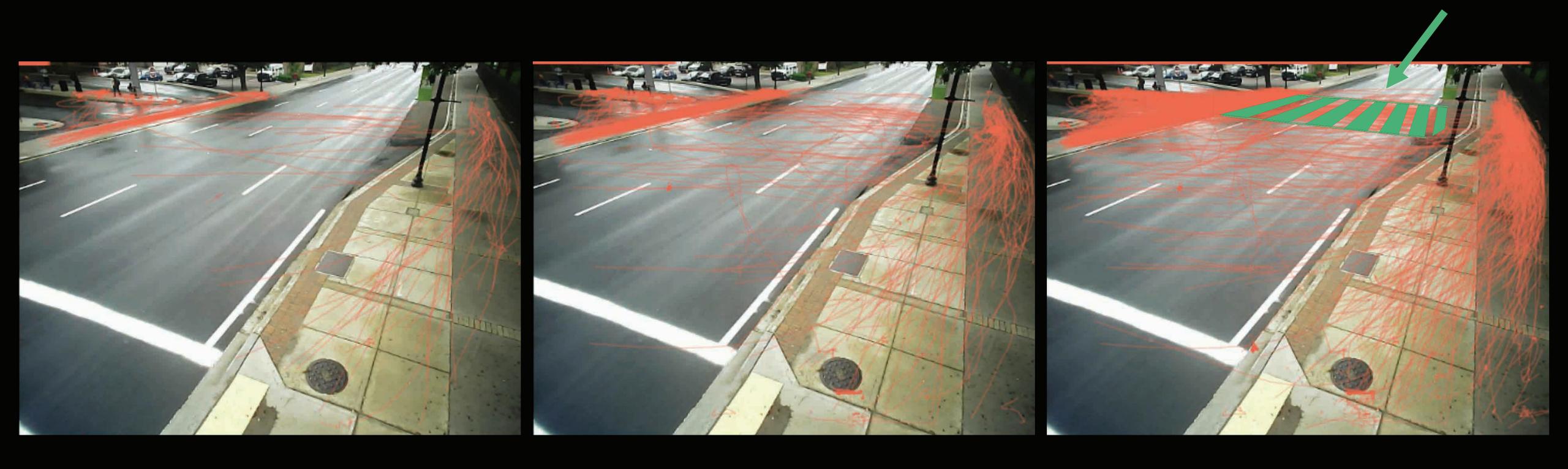




See heat maps and traveler paths, interactions, dwell times:









"class": "pedestrian",

"lat": 40.703085,

"box": [160, 19, 176, 56],

```
The Numina real-time data feed (API) can fuel all kinds of other
applications to trigger services in streets where needed, when needed.
```

trash

loading

ped

```
fe95e3fa662baa1",
                            0:00:32.457679104Z"
                            588d220e446dca40fa2613806e4cb",
        DOX: [108, 21, 182, 57],
       "lat": 40.703088,
       "lng": -73.986663,
       "feed_id": "58409ebaffe95e3fa662baa1",
       "time": "2017-06-10T00:00:32.957789952Z"
API /activites
       "class": "near-collision",
       "movements": ["470588d220e446dca40fa2613806e4cb",
                          "12d1badd527b4ad6a3d83c3f1b2193f0"],
       "feed_id": "58409ebaffe95e3fa662baa1",
        "start_time": "2017-06-10T00:00:32.457679104Z",
        "end_time": "2017-06-10T00:00:57.959905024Z"
       "class": "jaywalking",
        "movements": "227df365114f45828429839d09da9314",
        "feed_id": "58409ebaffe95e3fa662baa1",
        "start_time": "2017-06-10T00:25:19.966105088Z",
       "end time": "2017-06-10T00:25:44.466087168Z"
API /place-personalities
       "class_id": 1,
       "class_name": "user-defined-name-1",
```

"movement\_id": "470588d220e446dca40fa2613806e4cb",

# DOWNOVINBROOKLYN





A DANGER

- Cost: \$291.41 / sensor
  - Time: 1 hour / sensor

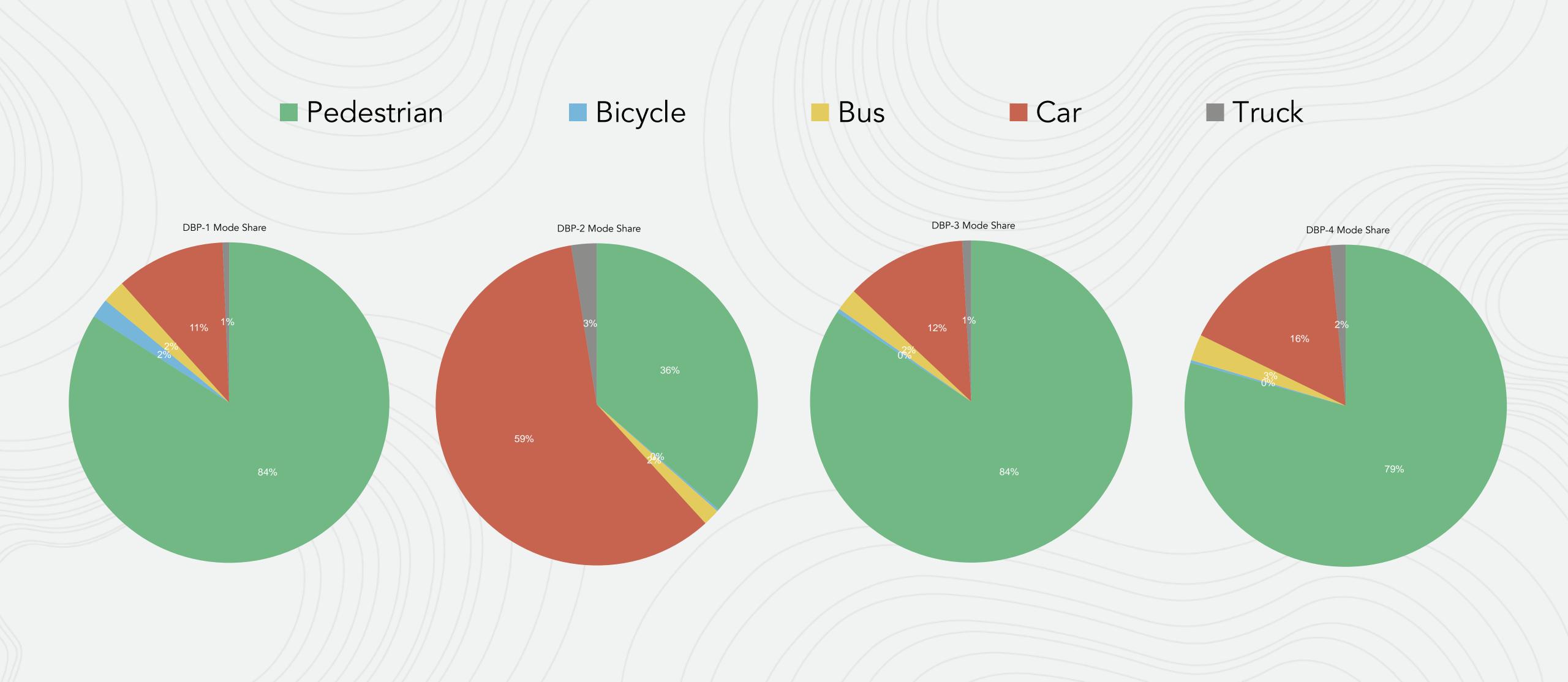
## FECHNICAL/RESULTS

October 1, 2018 - March 6, 2019

- 1. 100% sensor uptime from November 4, 2018, to present.
- 2. Collected 408,805,344 data points about 24+ million objects.
- 3. Successfully detected volume counts and paths of people, bicycles, cars, trucks, buses, and bags of trash.

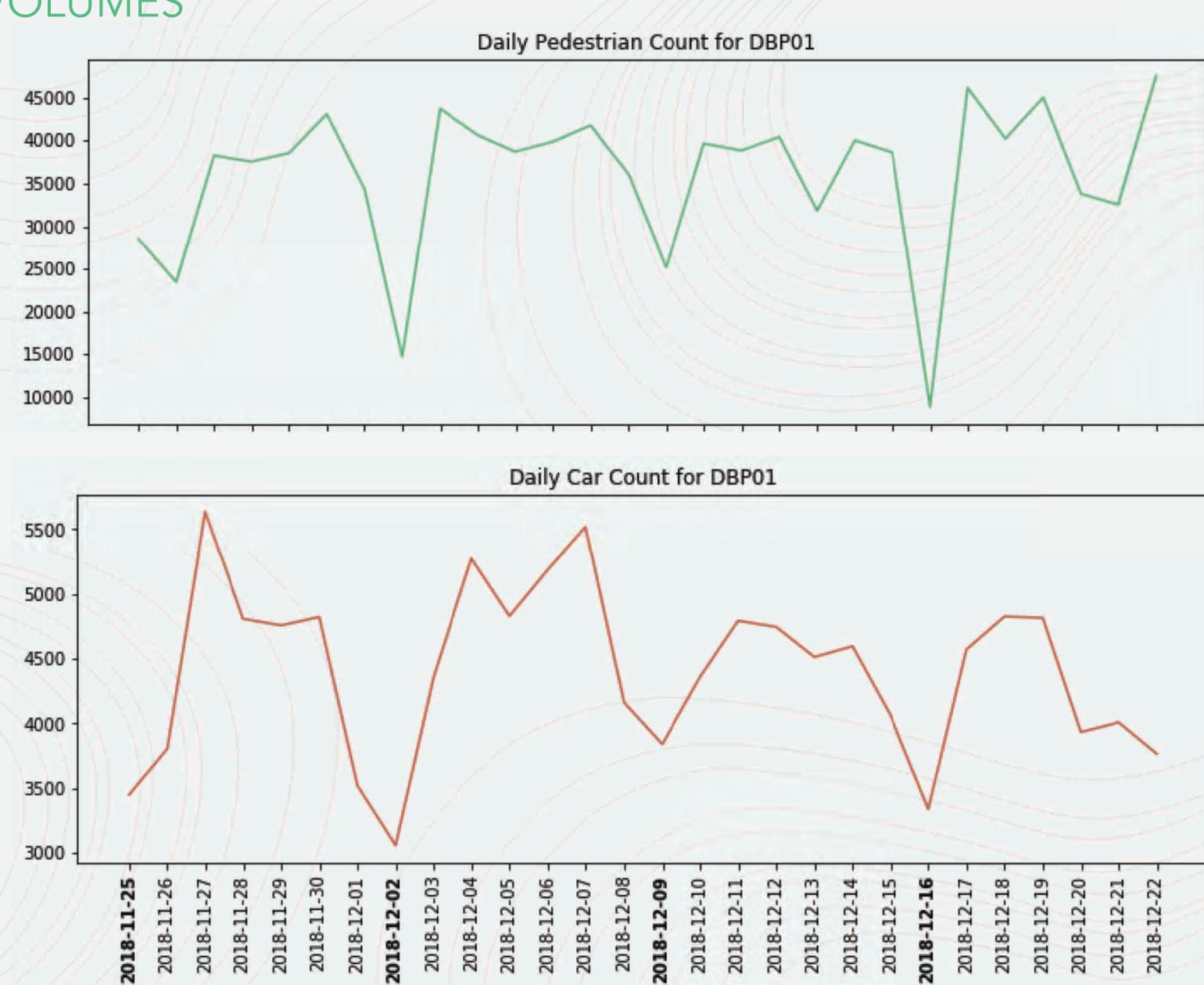


### MODESHARE & VOLUMES





#### MODESHARE & VOLUMES



## **SCAFFOLDING & CONSTRUCTION**





#### SCAFFOLDING & CONSTRUCTION

### Ratio of Pedestrians Walking in Road to Total Pedestrians



+53.3%

## Our mission:

## EMPOWER CITIES WITH DATA

to become more connected, efficient, and equitable.







Health 2.0 □





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