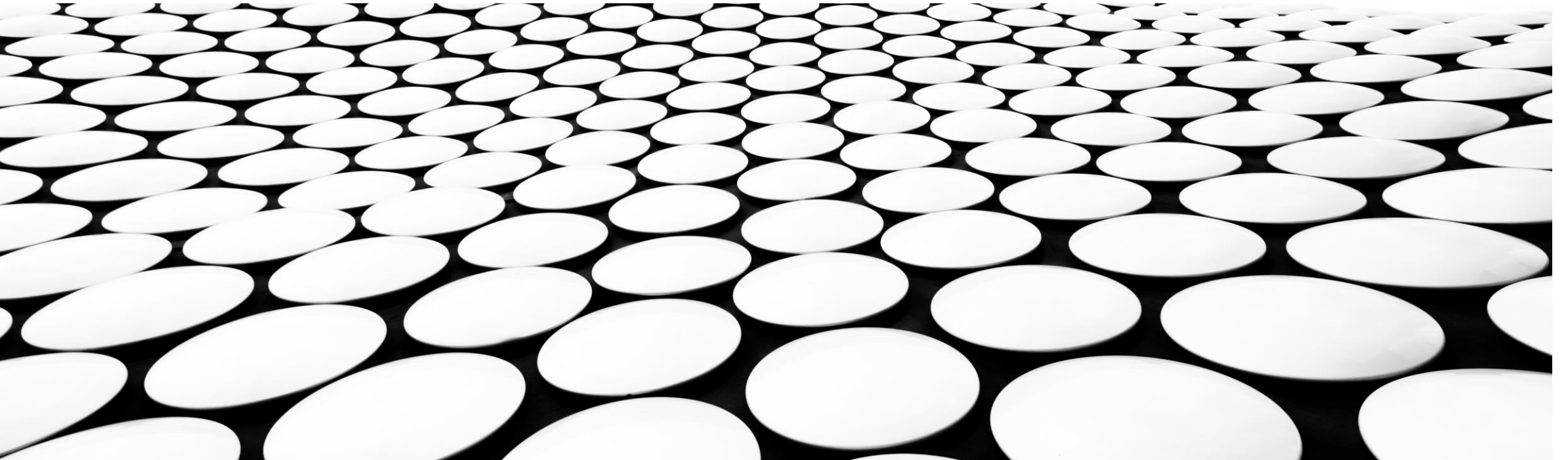


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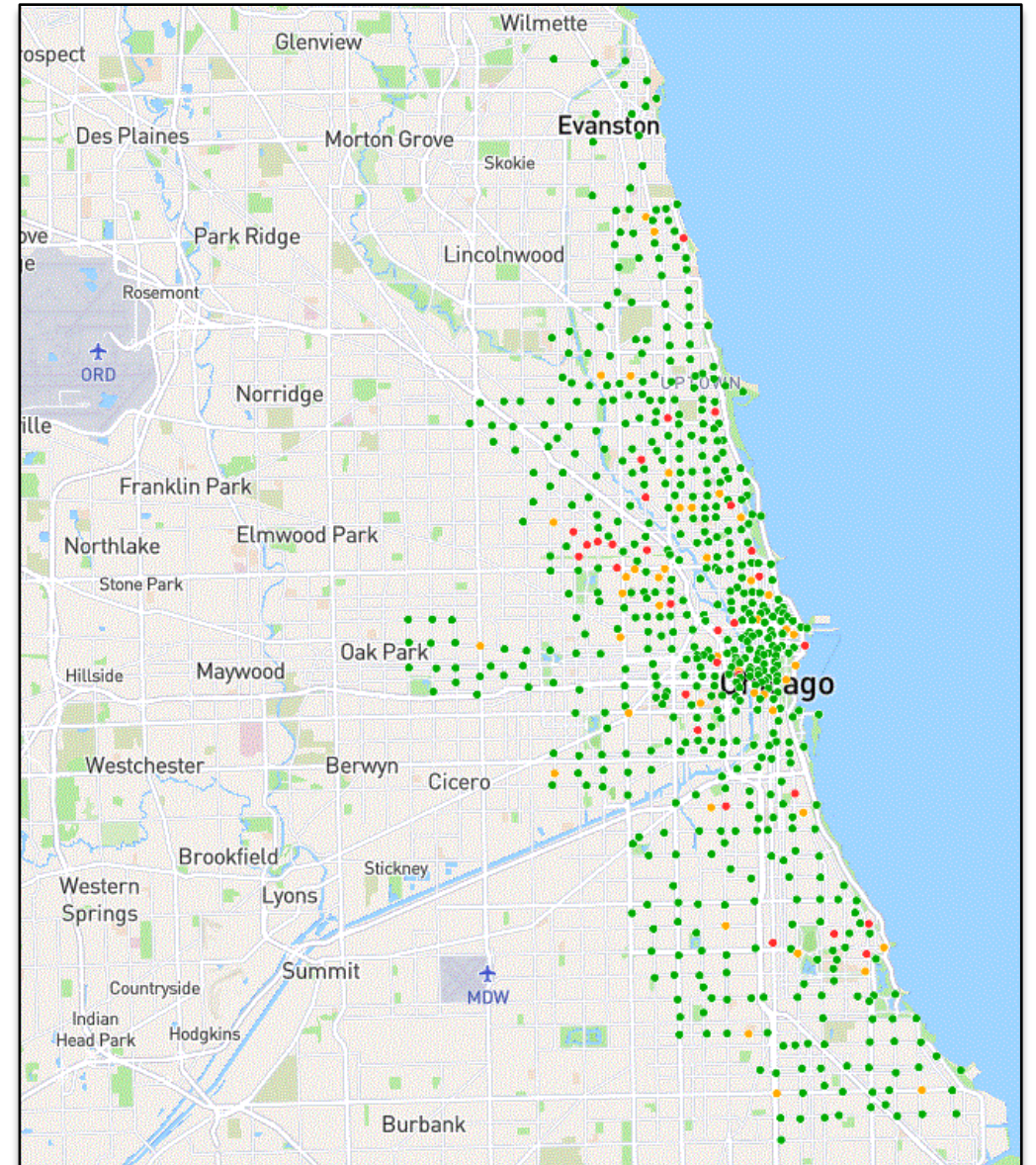
# BIKE PLANNER, an extension to the Divvy app

rguthrie

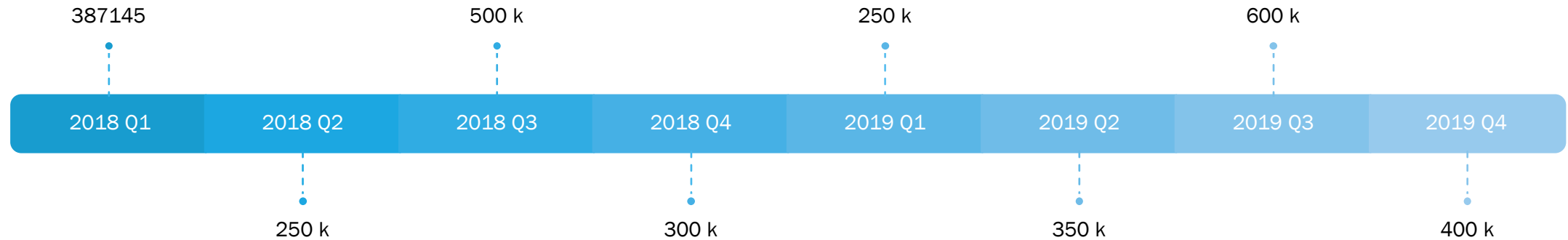


## WHAT'S DIVVY?

- ❖ Divvy is the bicycle ride-sharing system in Chicago. The system comprises 600+ checkout/return stations and many, many bicycles.
- ❖ Divvy is supported with an active App to show current inventory of bikes per station, and open car parking spaces.
- ❖ But Divvy doesn't tell you how much time to plan for riding from one given stations to another, given the time of day, the season of the year, and for people of your gender and age.
- ❖ Enter Bike Planner! By mining 2018 and 2019 Divvy trip data, Bike Planner will give you an average trip time and route for any two stations you choose!



## DIVVY DATABASE – 5.8M RIDES IN 2018-2019



Each ride comprises:

- ❖ Departure station location, date, and time
- ❖ Arrival station location, date, and time
- ❖ For rides by subscribed riders (the large majority), rider gender and birth year

... which is perfect for demographic, temporal, and geographic matching to new rides!



# BIKE PLANNER

## Planned Ride:

- ❖ Departure Station
- ❖ Arrival Station
- ❖ Date of Ride
- ❖ Time of Ride
- ❖ Rider Gender
- ❖ Rider Age

## APIs:

- ❖ Google Maps

- ❖ Google Routes

## Analytics:

- ❖ Custom simple statistics with outlier rejection

## Charting:

- ❖ Chart.js package

