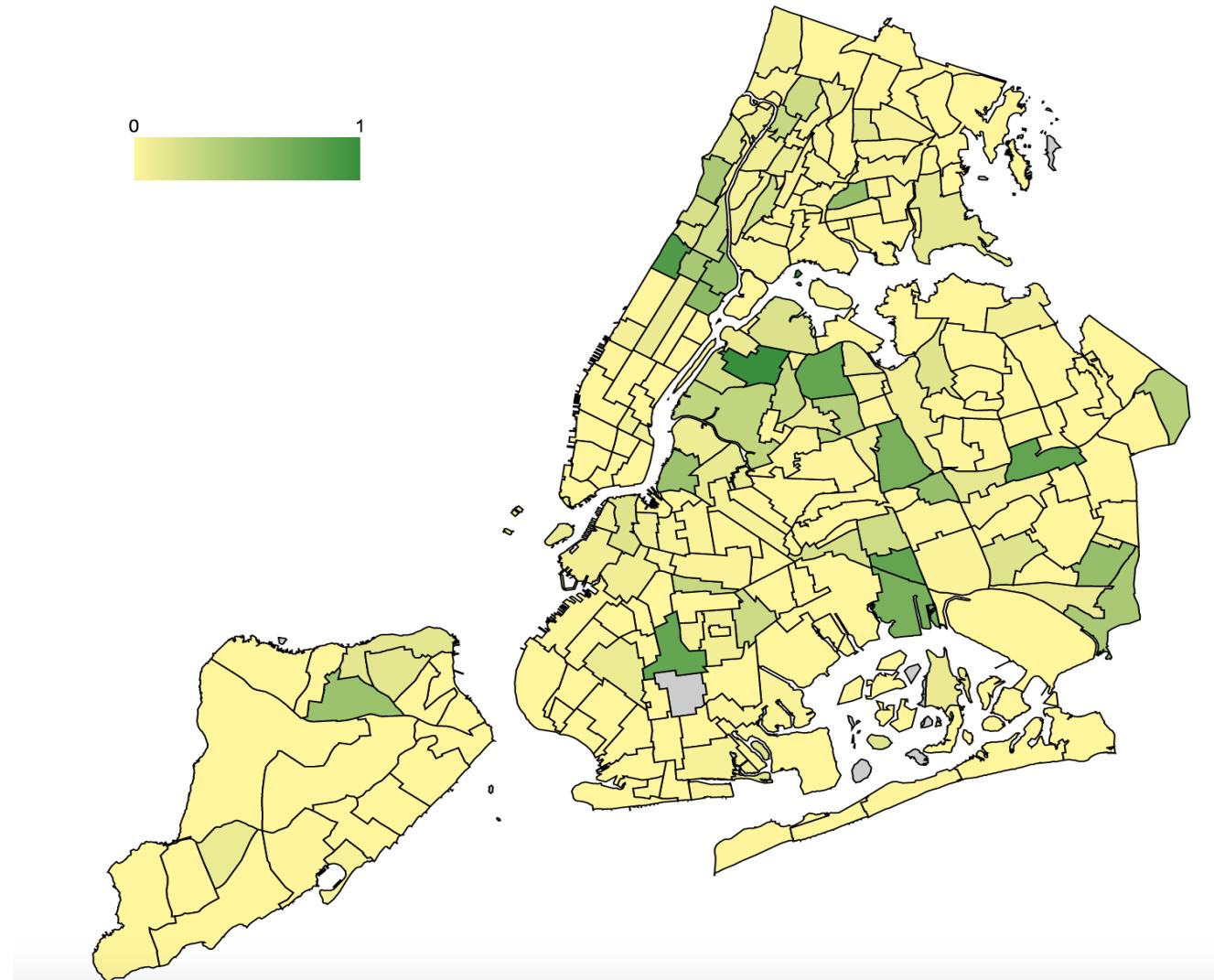


# Project Poster

By: Tianhao Li  
Jiaxiang Lin

Have the green taxis better served some regions?

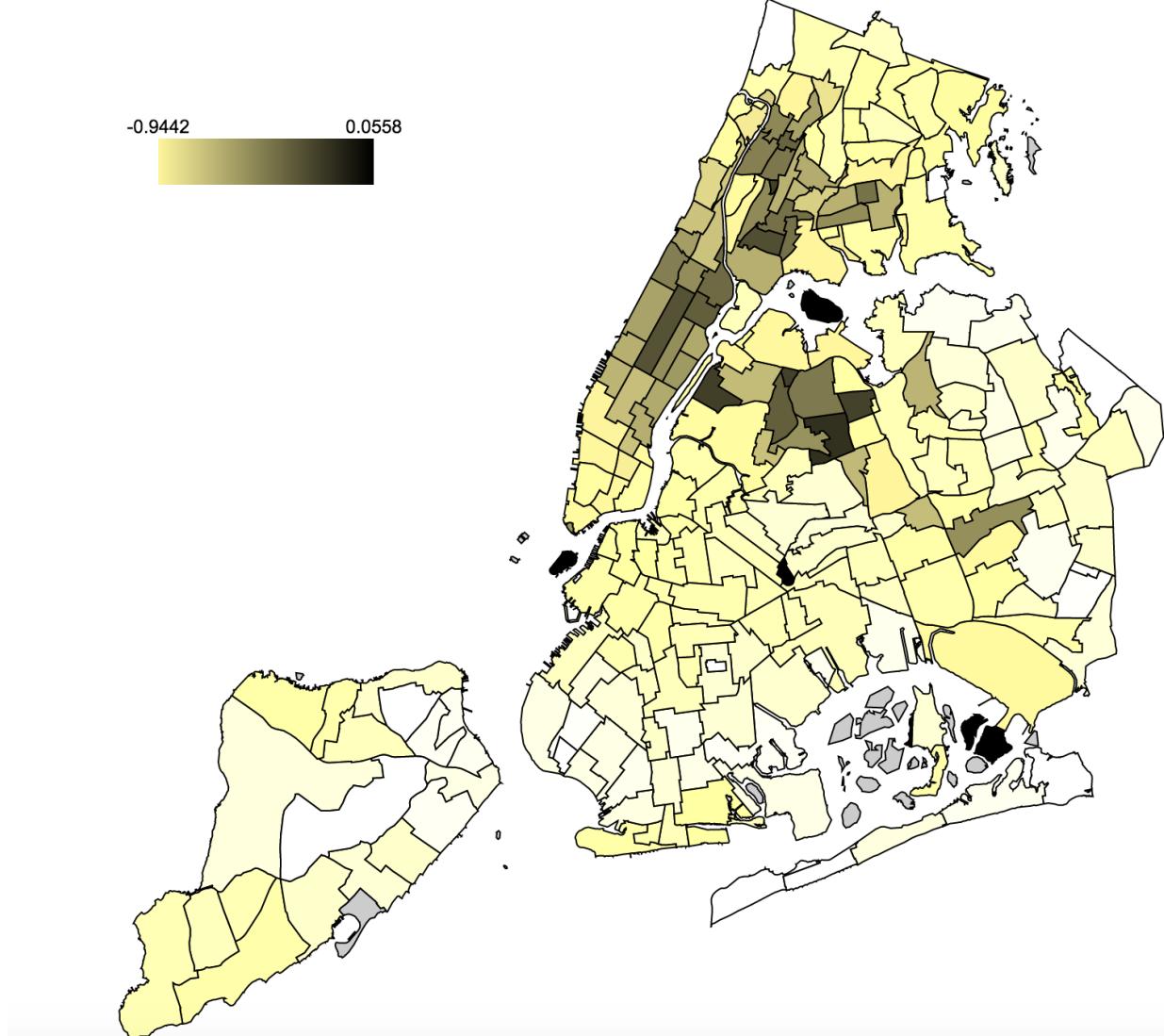


Data: Yellow (2013-5 ~ 2013-10) Green(2013-8 ~ 2013-10)

Index: Green(8~10)/(All(8~10) - All(5~7))

Result: Astoria(Queens), Morningside Height(Manhattan), Ozone park(Queens) are the most better served regions. But the majority of the out-boroughs are still under the domination of yellow taxis.

Which region's people like to use Uber most?

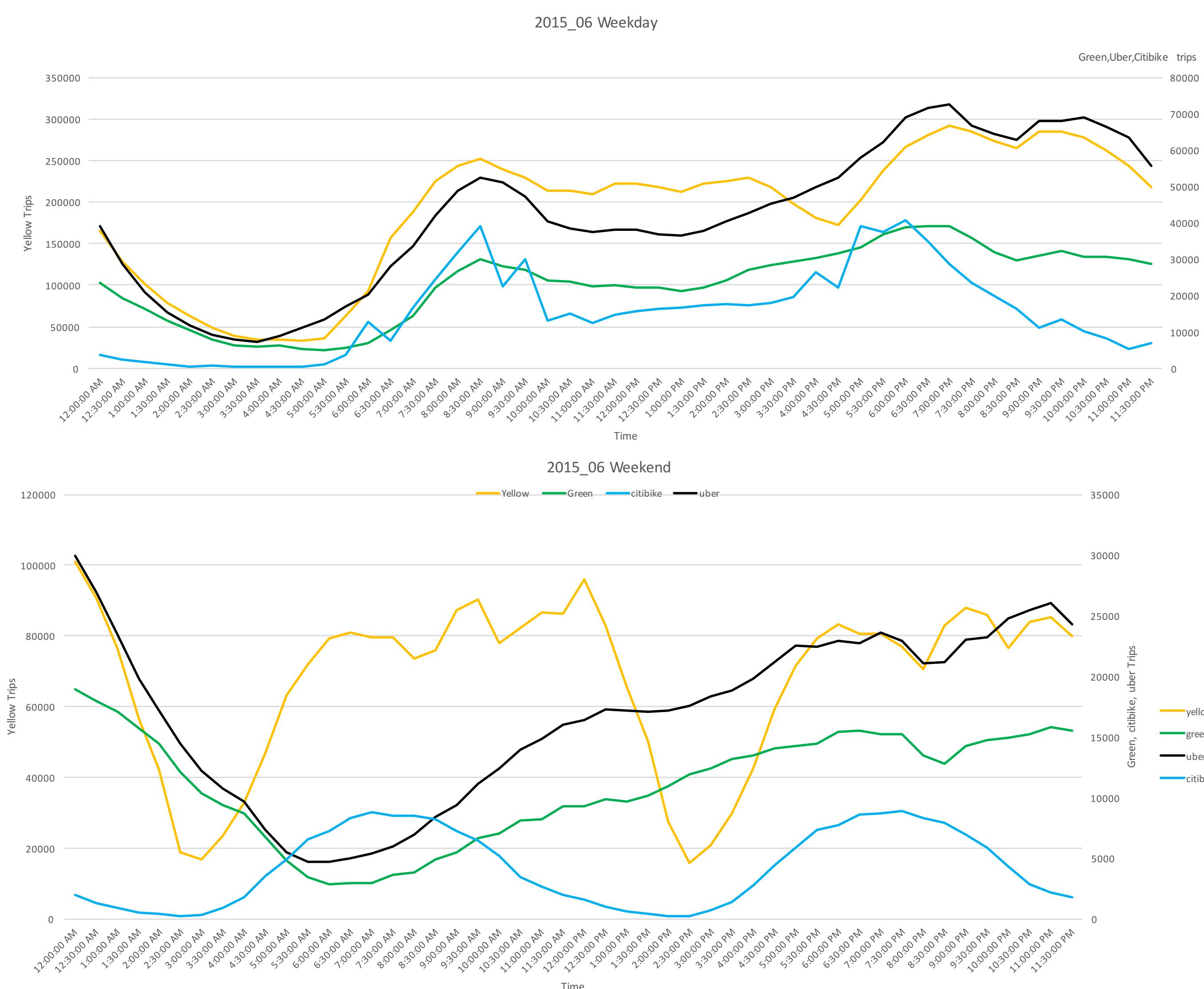


Data: Yellow (2014-8) Green(2014-8) Uber(2014-8)

Index: UberTrips/RegionalAllTrips - NYCUberTrips/NYCAllTrips

Result: most black regions focus on the upper side of Manhattan and northern queens where the subways not served very well.

Trips of Yellow Taxis, Green Taxis, Uber and Citibikes in 2015\_06 weekdays and weekends

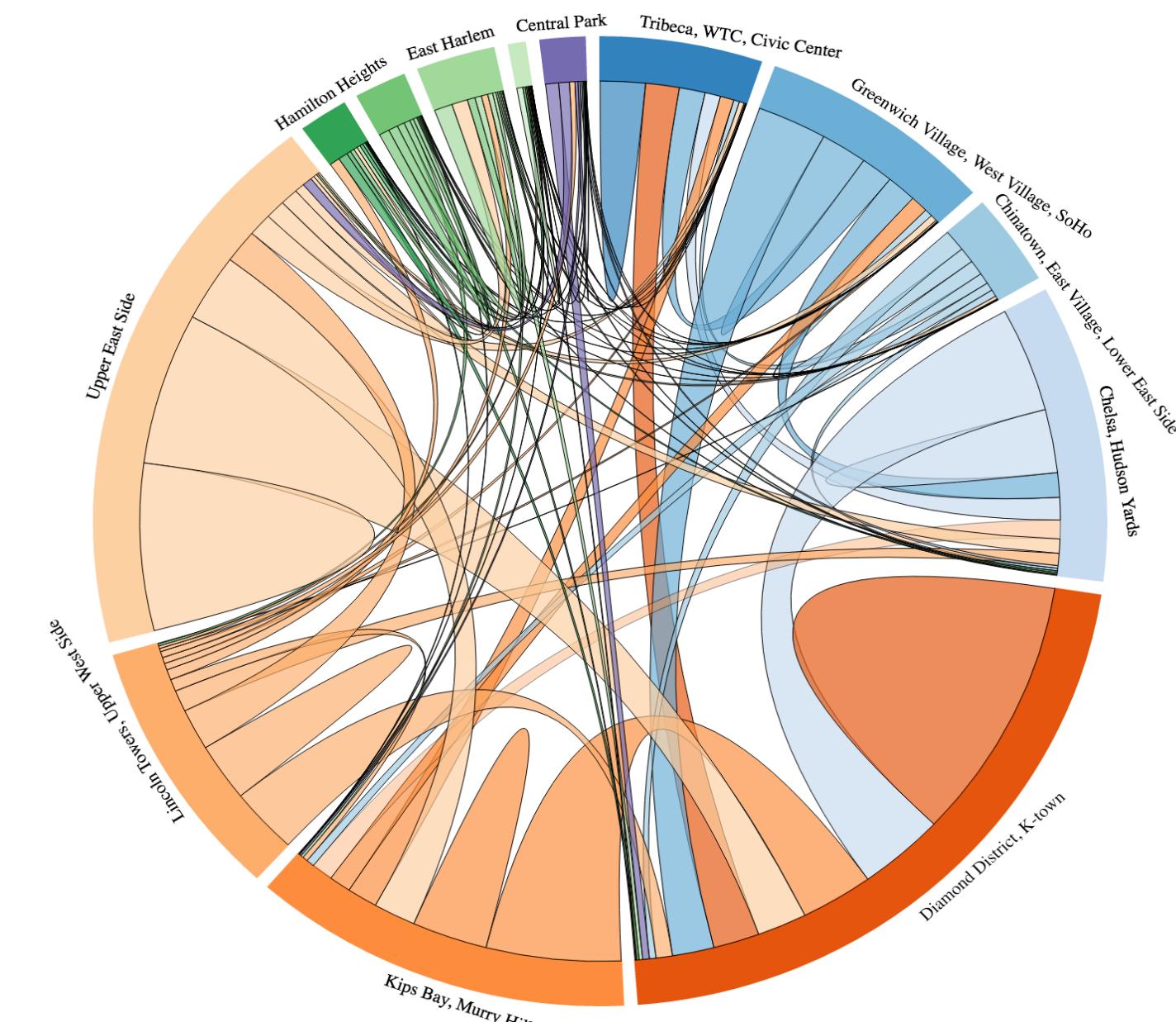


Weekday	Yellow Taxi	Green Taxi	Citibike	Uber
Morning Peak Time	8:00-9:00am	8:00-9:00am	8:00-9:00am	8:00-9:00am
Evening Peak Time	1. Around 7:00pm 2. Around 9:00pm	Around 7:00pm	5:00-6:30pm	1. Around 7:00pm 2. Around 9:00pm

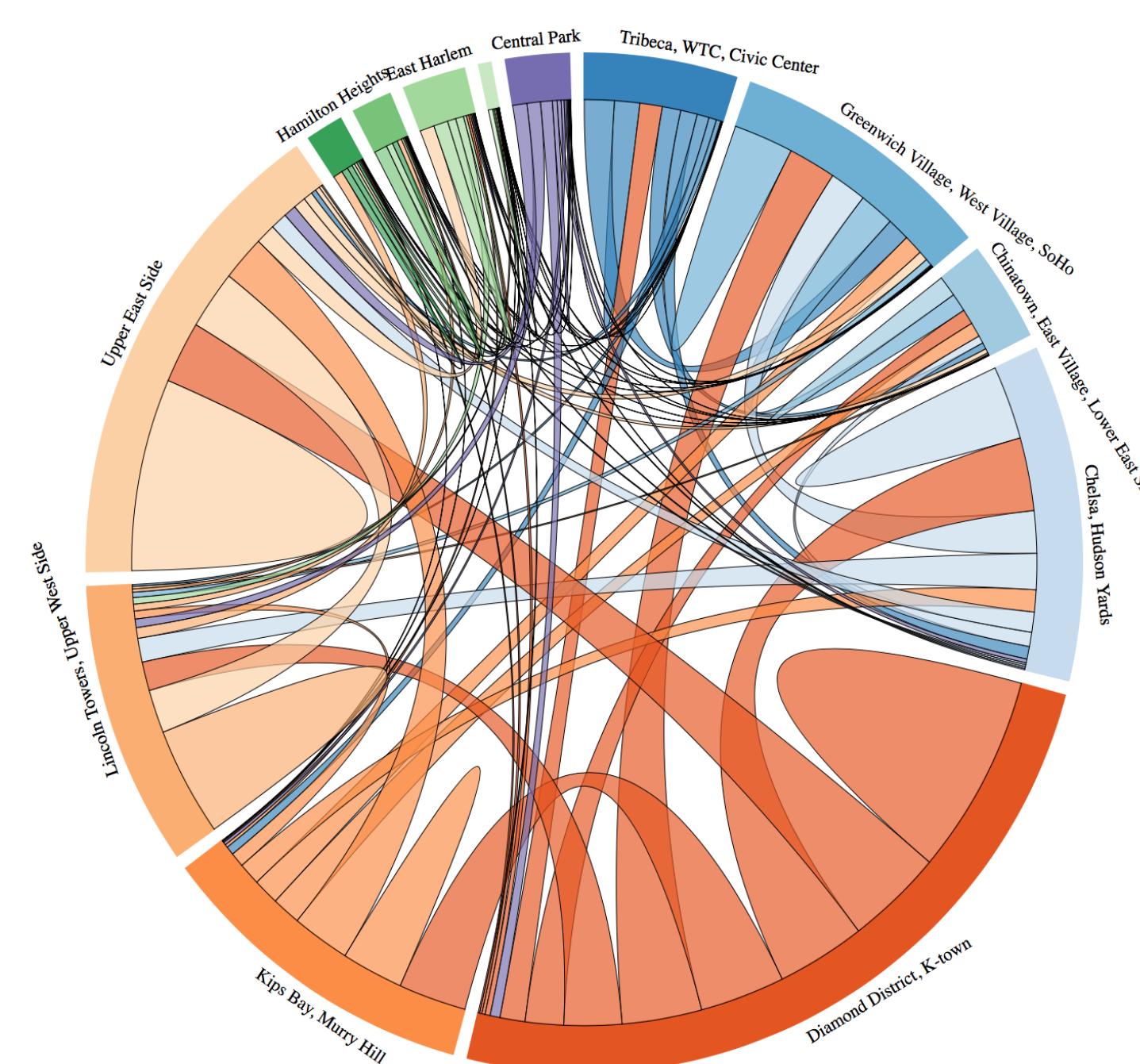
Weekend	Yellow Taxi	Green Taxi	Citibike	Uber
Morning Peak Time	None	None	7:00-8:00am	None
Evening Peak Time	Around 12:00am	Around 12:00am	Around 8:00pm	Around 12:00am

Taxi Flows between Manhattan's Districts at Weekdays' Morning Peak and Evening Peak

Morning(8-9am):



Evening(18-19pm):



Result: The most pickups happened in the Diamond District including Midtown, K-Town and FlatIron. Also, the taxis flow between them is also the largest one among all interdistrict flows. The trips from Diamond District dominated the flows to many districts which is illustrated by more red chords here. But when it comes to morning peak, this domination disappeared.

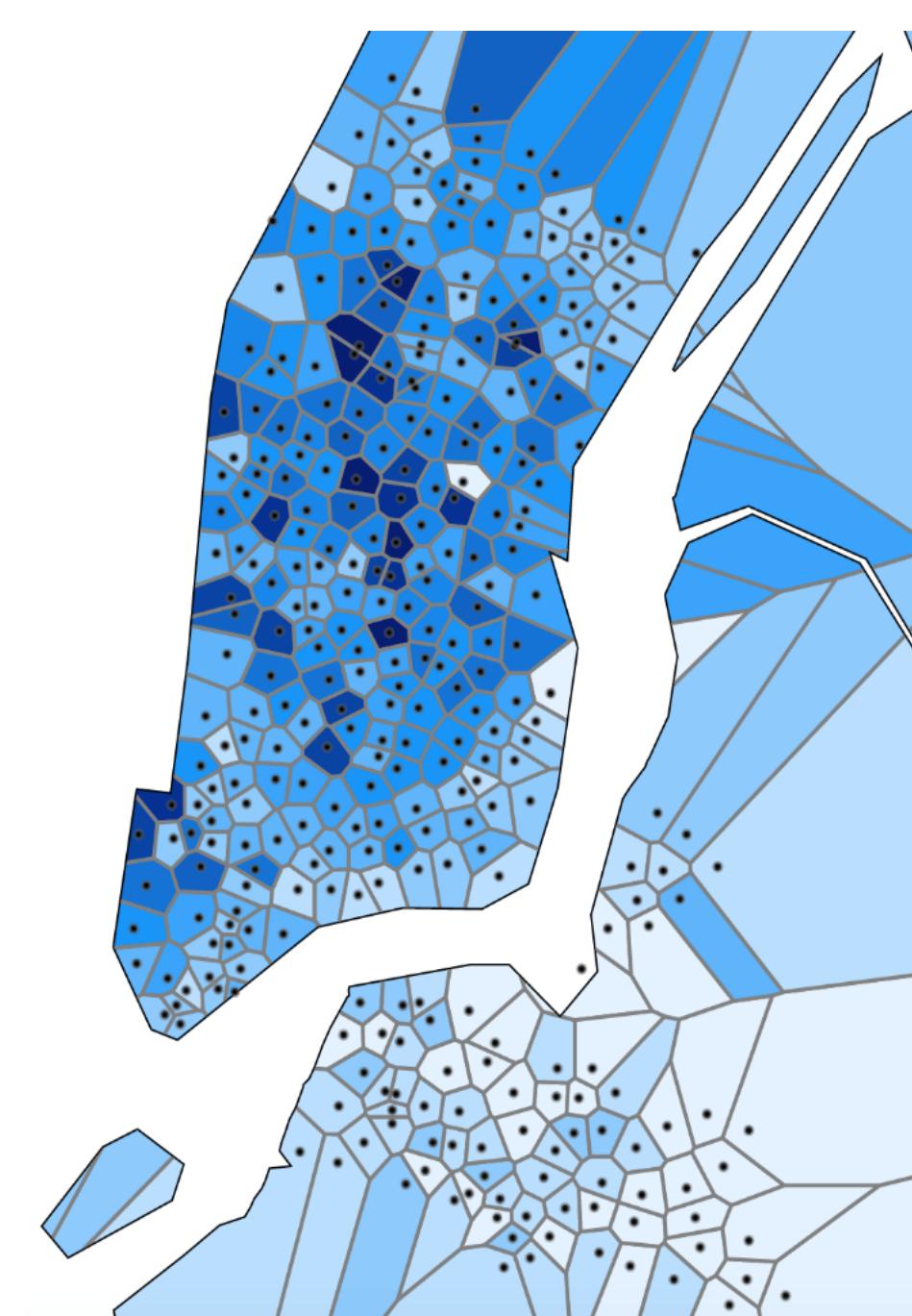
Which Citi-bike station is the most popular start/end station?



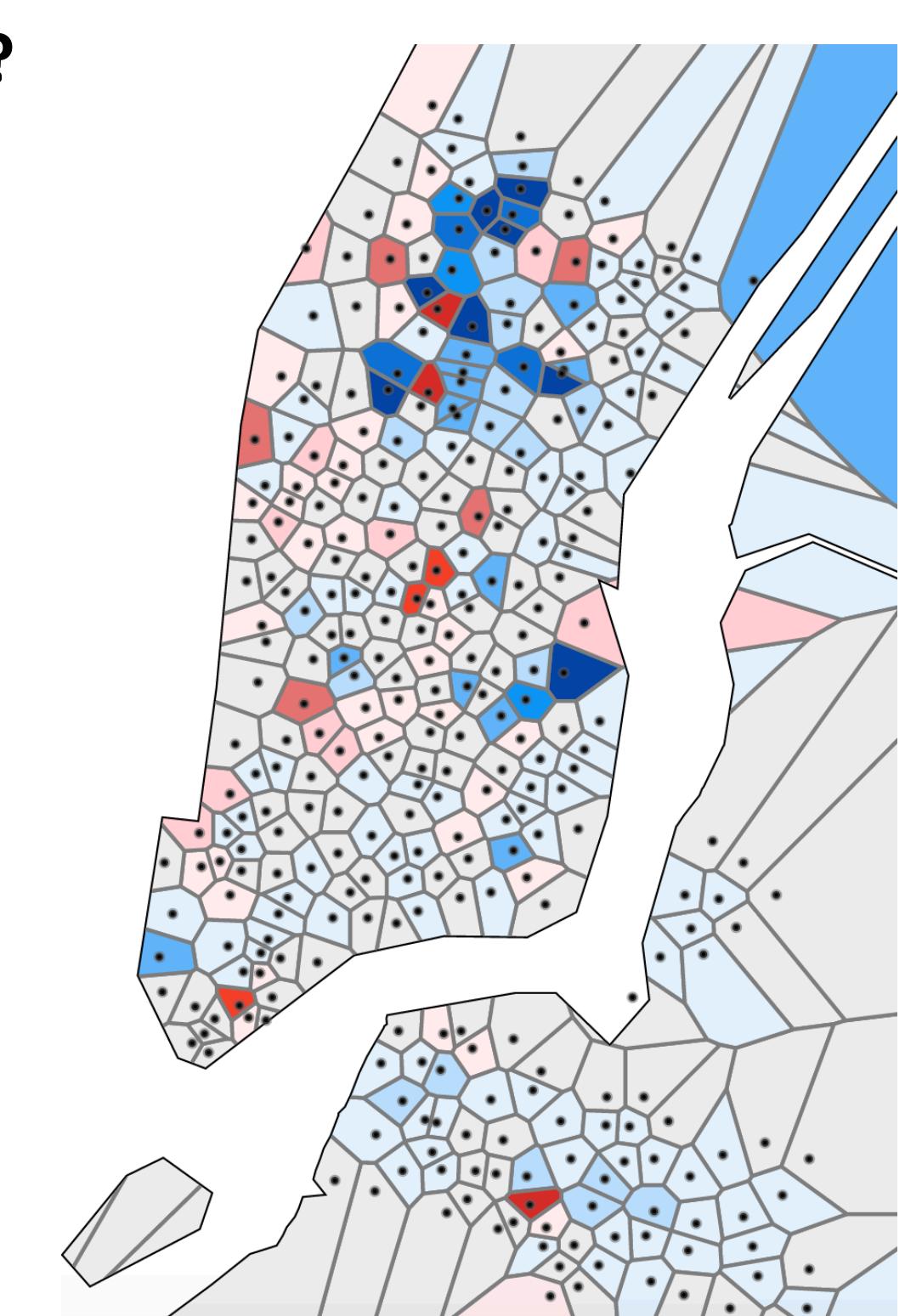
Data: Citi-bikes (2015-01~2015-06)

Result: The diagrams show that the most busy station for both biked going in and out are near Penn Station, Port Authority, Grand Central, Bryant Park and Tribeca.

Using the number of bikes going in minus number of bikes going out, we get the third diagram, we can find the trend of bikes. It is interesting that, for the largest several sinks, there are also a sources accompanying with it.



The Voronoi Diagram of Citi-bike stations with number of bikes going in



The Voronoi Diagram of Citi-bike stations with the number of Ending minus number of Starting (Red implies "in" is greater than "out", blue vice versa)