CTA Project Plan

Mythili Vinnakota   Anna Ziff

August 2, 2015

1 Research Questions

1.1 Bunching

- How much deviation from the standard route highly predicts for bunching?

- How does this change when different parameters are marginally changed?

2 Data

2.1 From CTA

Route	StopID	TimeStamp	Prediction	BusID	Arrival	Boarding Passengers
171	1659	20150228 07:07	20150228 07:10	4189	20150228 07:11	4
171	4872	20150228 07:06	20150228 07:10	4310	20150228 07:10	1
171	14483	20150228 07:06	20150228 07:12	4317	20150228 07:11	2
172	...	...	...	...	...	...
...	...	...	...	...	...	...

2.2 From API

Exact locations of the stops to make scaled representations of the routes

2.3 Descriptives

- Number of observations by bus, stop, day, etc.

- Codebook for data

- Scaled map of actual routes

- Heat map of where the most number of riders board

- Distribution of time when the busses are used

- Deviation from planned schedule

- Arrival time using the prediction

3 Timeline

August 7: Get data, with luck. Coordinate with Lenny

August 8/August 9: Clean data, start descriptives

August 11: Have most of descriptives done. Send Lenny report

After August 12: Skype with Lenny and re-assess

September 25: Full draft