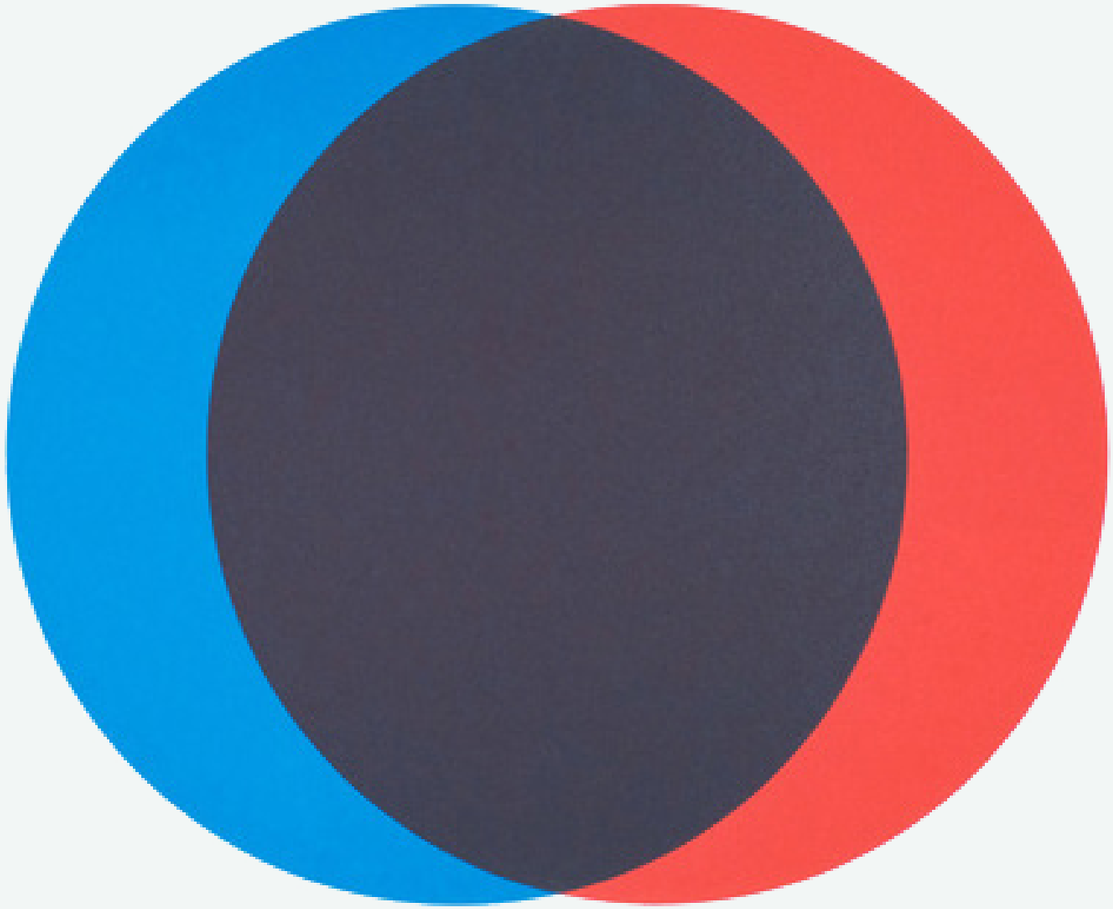


PEDESTRIAN VS. CAR

Where can traffic calming measures and the street pedestrianization have the highest impact in Riyadh?

Raised Intersection, Padova, IT

Pedestrianization, Times Square, NYC

Potential
Pedestrian Activity

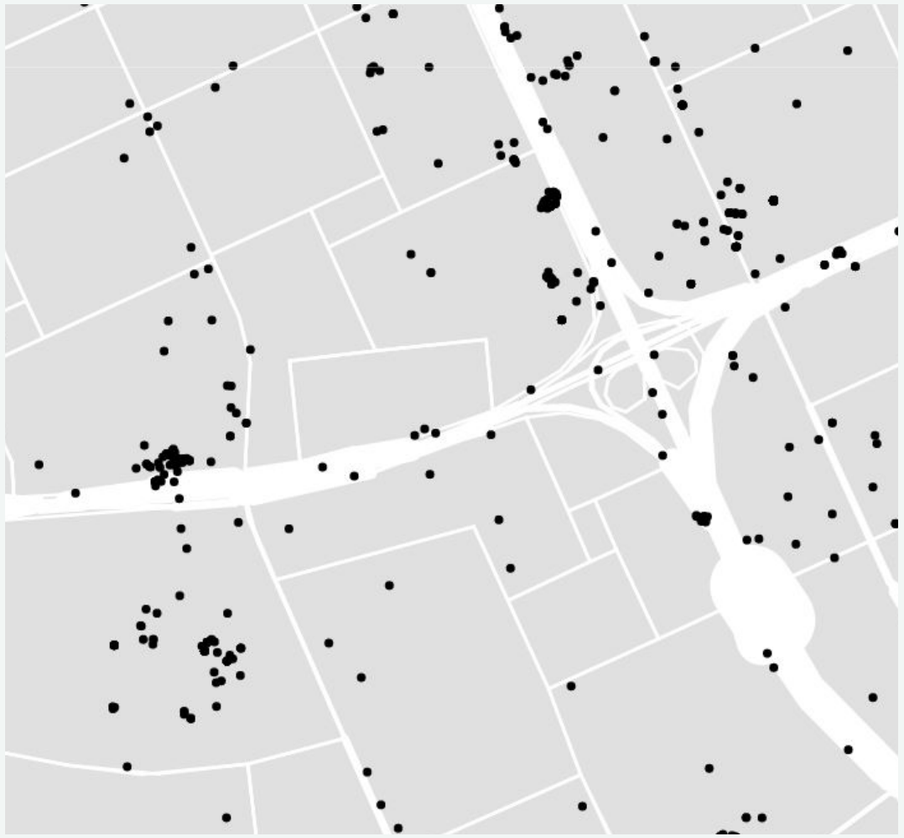
Congestion

Planning Interventions

PEDESTRIAN VS. CAR

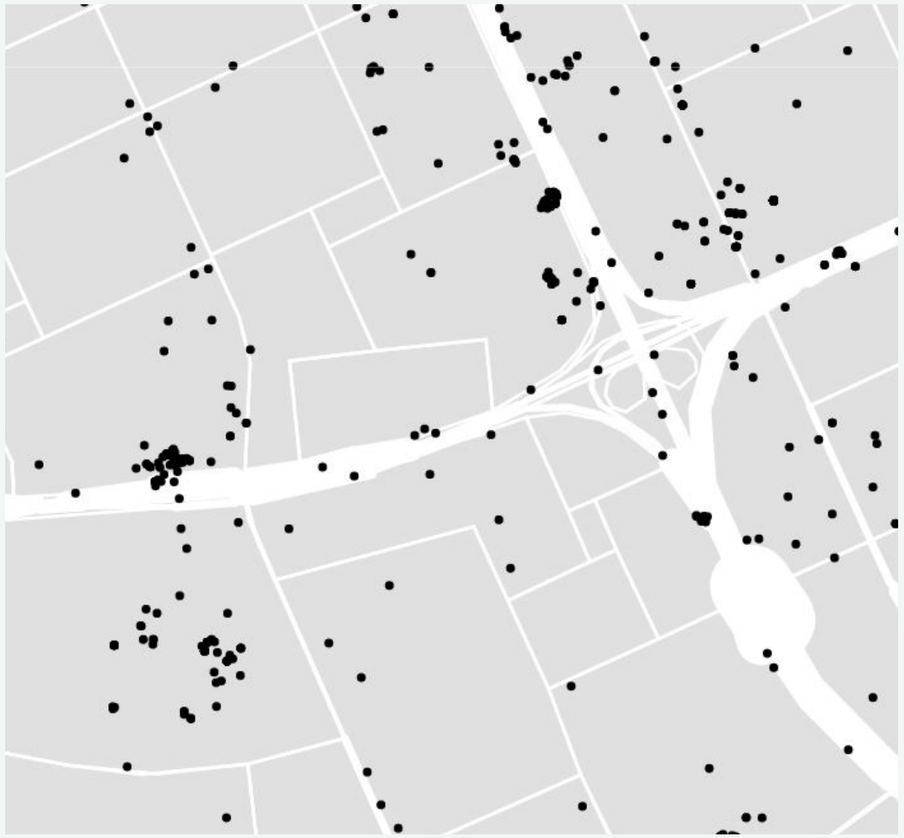
Potential
Pedestrian Activity

Congestion



Potential
Pedestrian Activity

Congestion

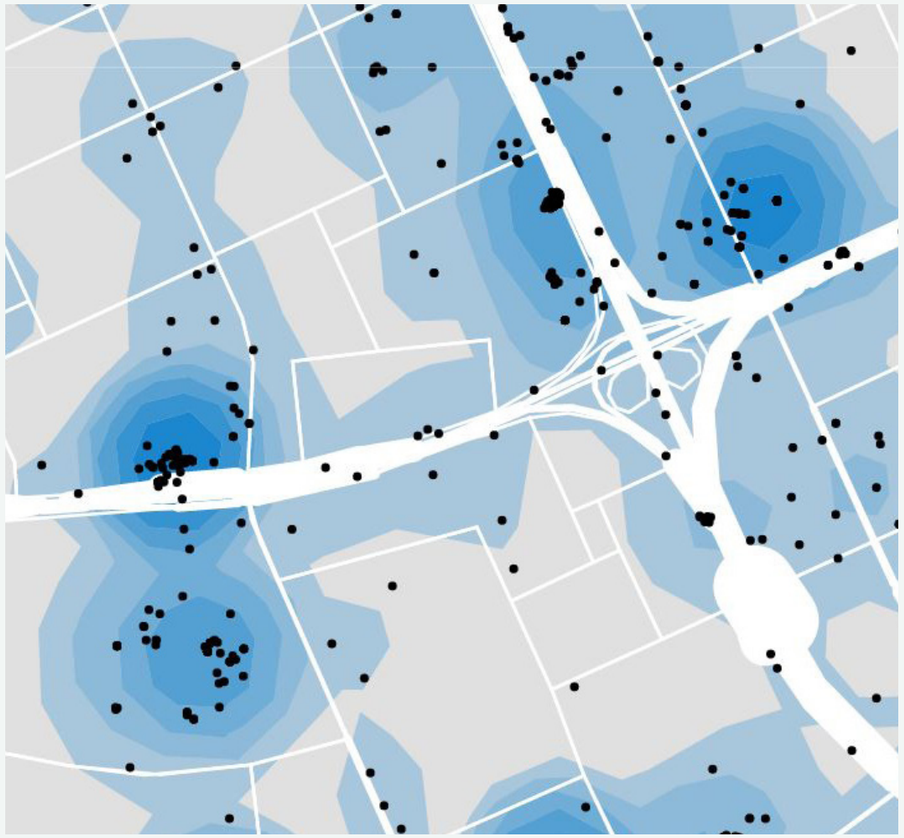


Potential
Pedestrian Activity

Twitter Data

50,000 tweets

from October 8th to December 17th, 2015



Potential
Pedestrian Activity

a density map shows the number of tweets within a 300m search radius

Travel Time Index (TTI)

ratio of congested travel time to free travel time

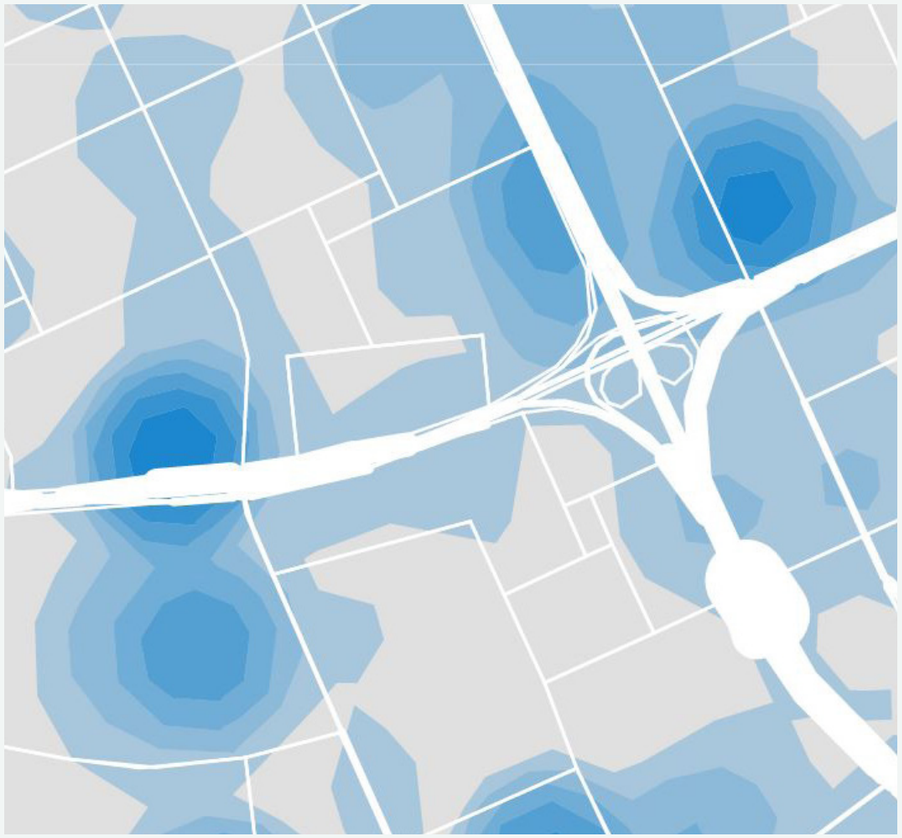
1 = no congestion

1.2 = 20% increase in travel time

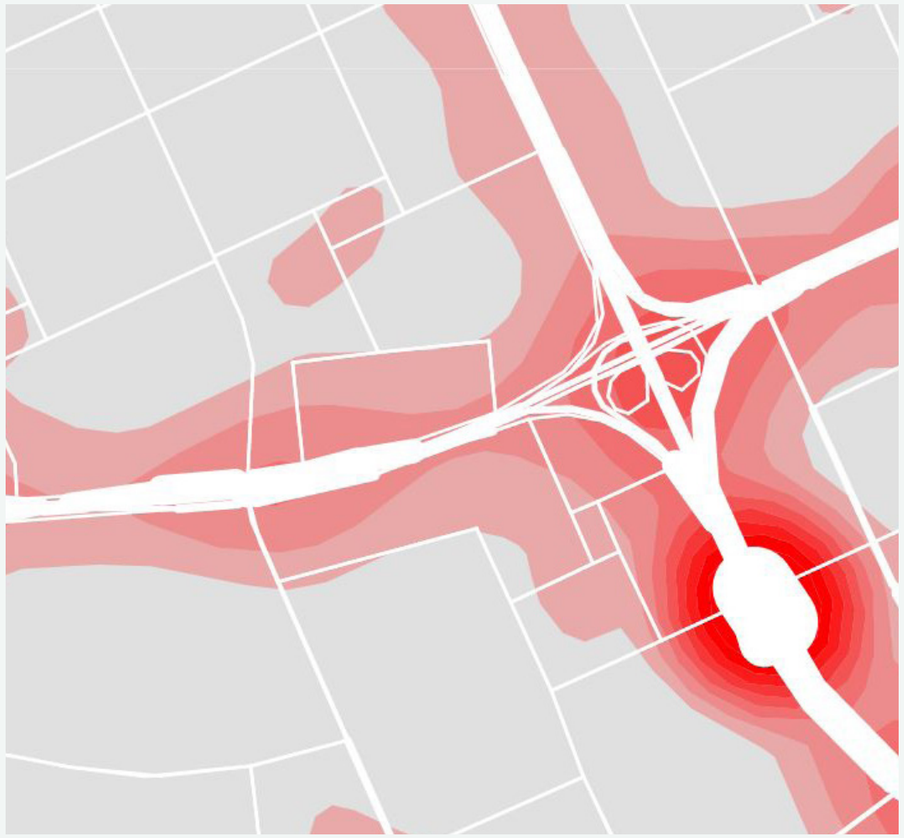
Congestion

A heat map shows the areas that have the largest TTI

Congestion



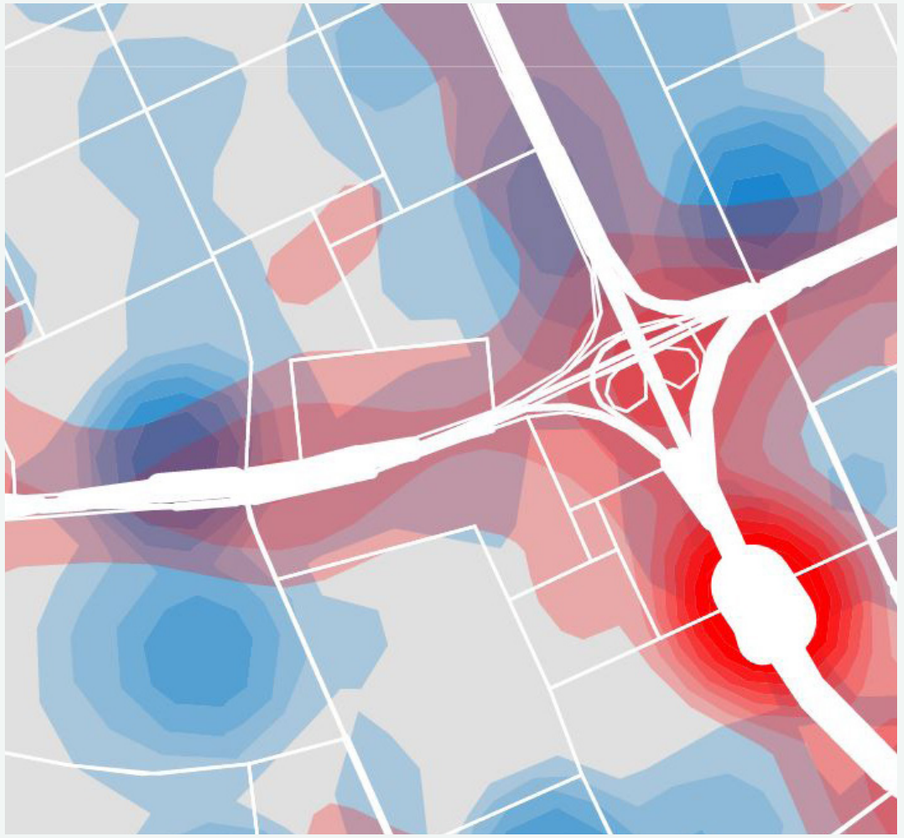
Potential
Pedestrian Activity



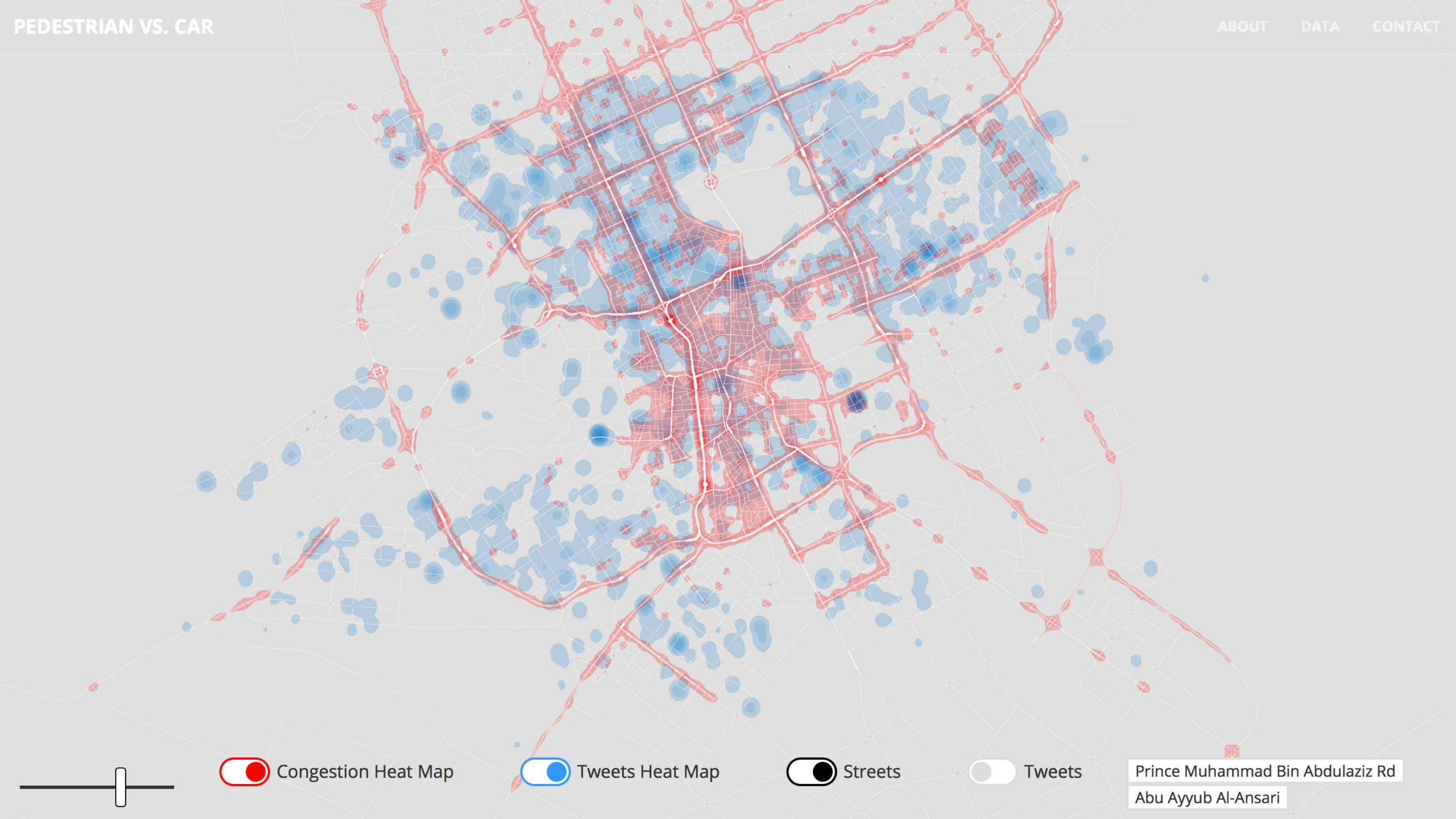
Congestion

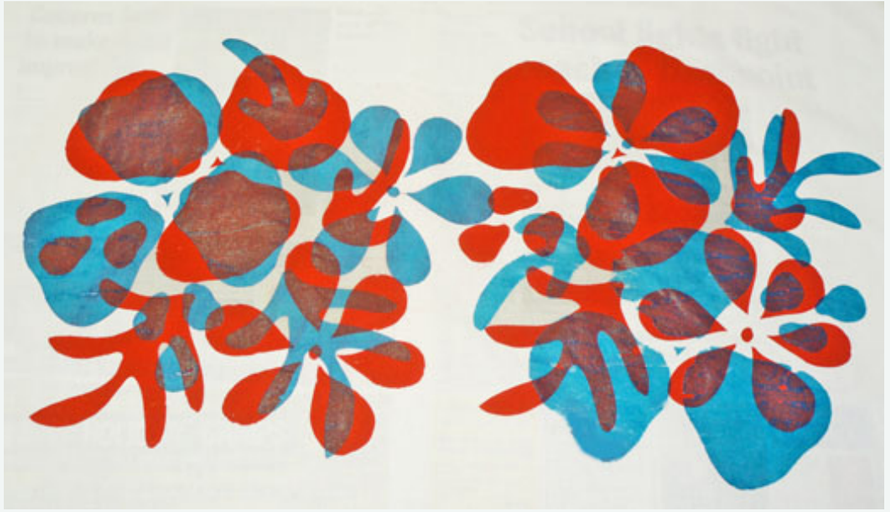
Making the data more legible

PEDESTRIAN VS. CAR



Composite Map


PEDESTRIAN VS. CAR
ABOUT
DATA
CONTACT
Congestion Heat Map
Tweets Heat Map
Streets
Tweets
Prince Muhammad Bin Abdulaziz Rd
Abu Ayyub Al-Ansari



Visual References

PEDESTRIAN VS. CAR

Next Steps

- compare these results to on the ground observations to see if Twitter is a good proxy for social activity

- create a rating system for pedestrianization potential that can be applied to street segments

Dennis Harvey & Brandon Peterson
MIT DUSP | 11.S947: Big Data, Visualization, and Society