Team 9: Pedestrian Crossing in Chester Park

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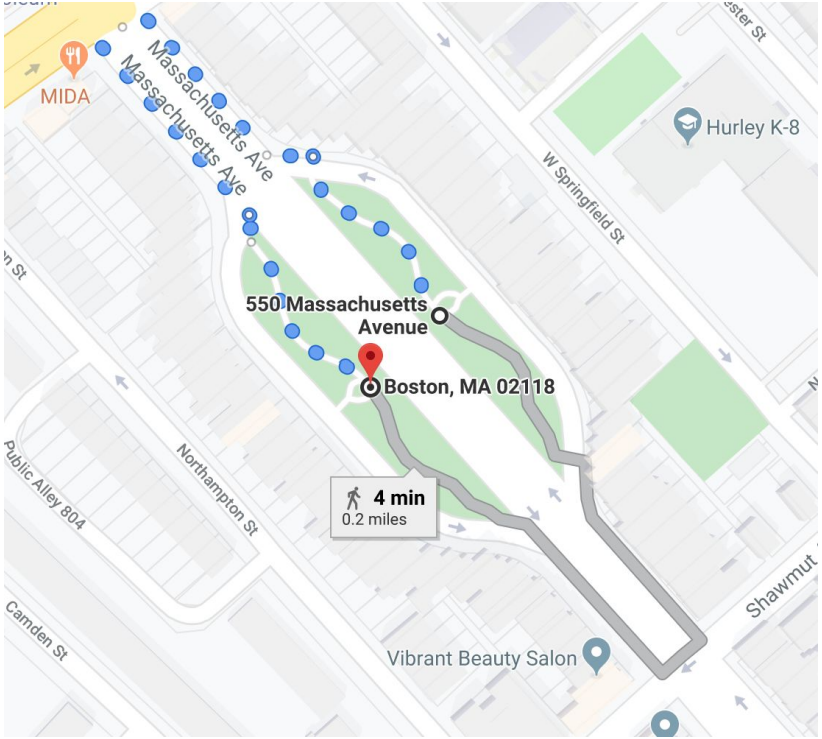
The Problem



- Convenience
  - The park functions as two separate parks right now because it's difficult to get between the two safely
- Safety
  - 36 jaywalkers over an hour
  - 72% of pedestrian fatalities occur away from intersection *(NHTSA, 2016)*

Exploring Solutions

- Provide an outline of possible solutions to this pedestrian issue
- Balance the pros and cons
- Explore safety, convenience, and cost
- Focus on the three most realistic pedestrian crossings for this area

High-Visibility Crosswalk

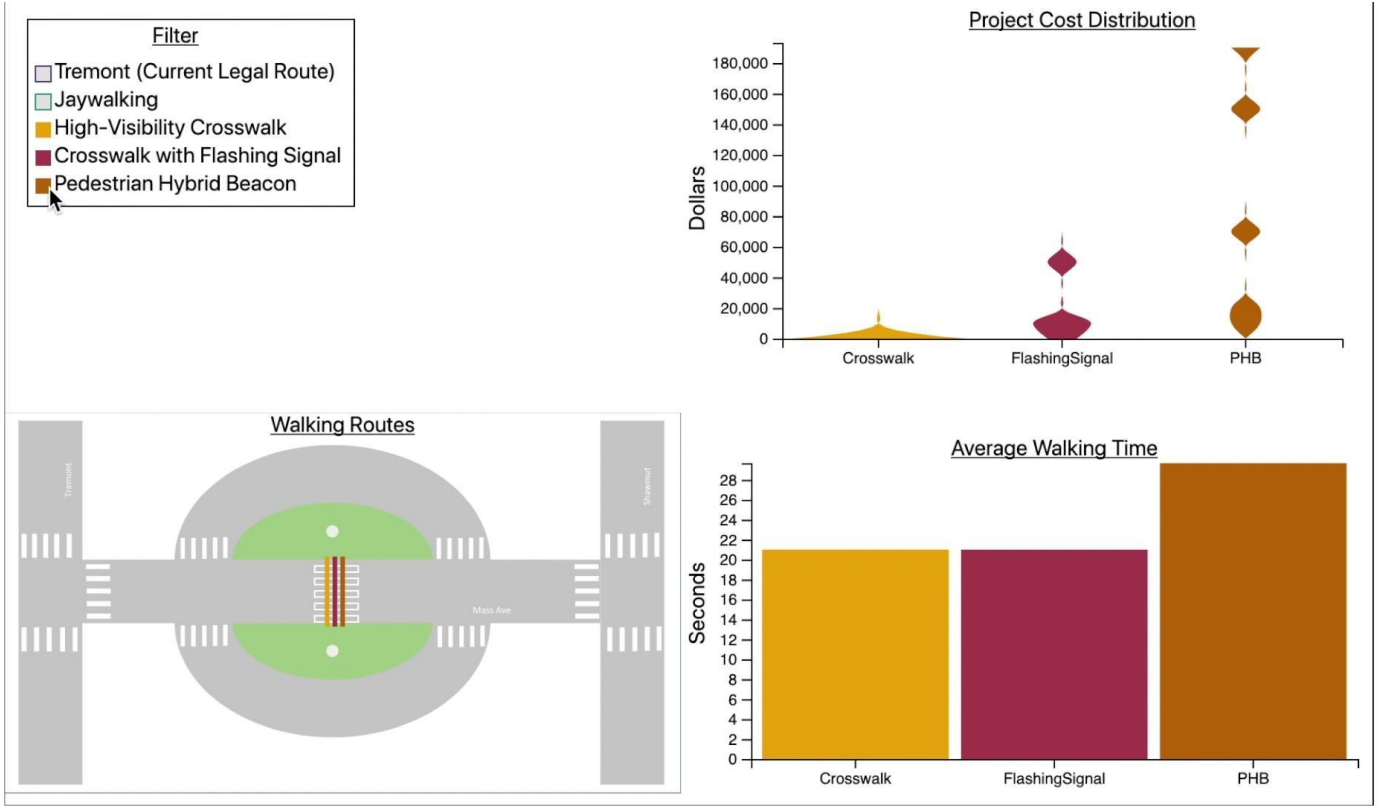
Rapid Flashing Signal

Pedestrian Hybrid Beacon

Data Collection

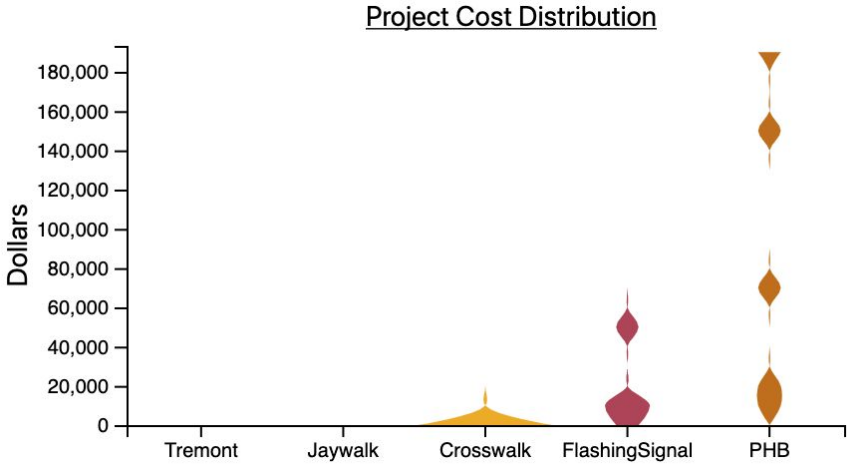
- Counting jaywalkers
- Timed trips between halves of the park, and across implementations of our solution options in the area
- Cost data from UNC Highway Safety Research Center

Our Visualization



Challenges

- Getting estimate on time for our suggested solutions
- Successfully implementing a violin plot



Conclusions/Going Forward

- The current pedestrian crossing situation in Chester Park is not ideal
- There is no one best solution to this problem
- Cost, convenience, and safety all need to be taken into account
- Gather, process, and incorporate safety information
- Impact on commuters

Thank you!

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