

4-RIDE Mobile

Rethinking University Transportation

Randy Fitzmorris

Current System

- Inefficient scheduling
- Unintuitive scheduling software
- Unreliable communication





Student



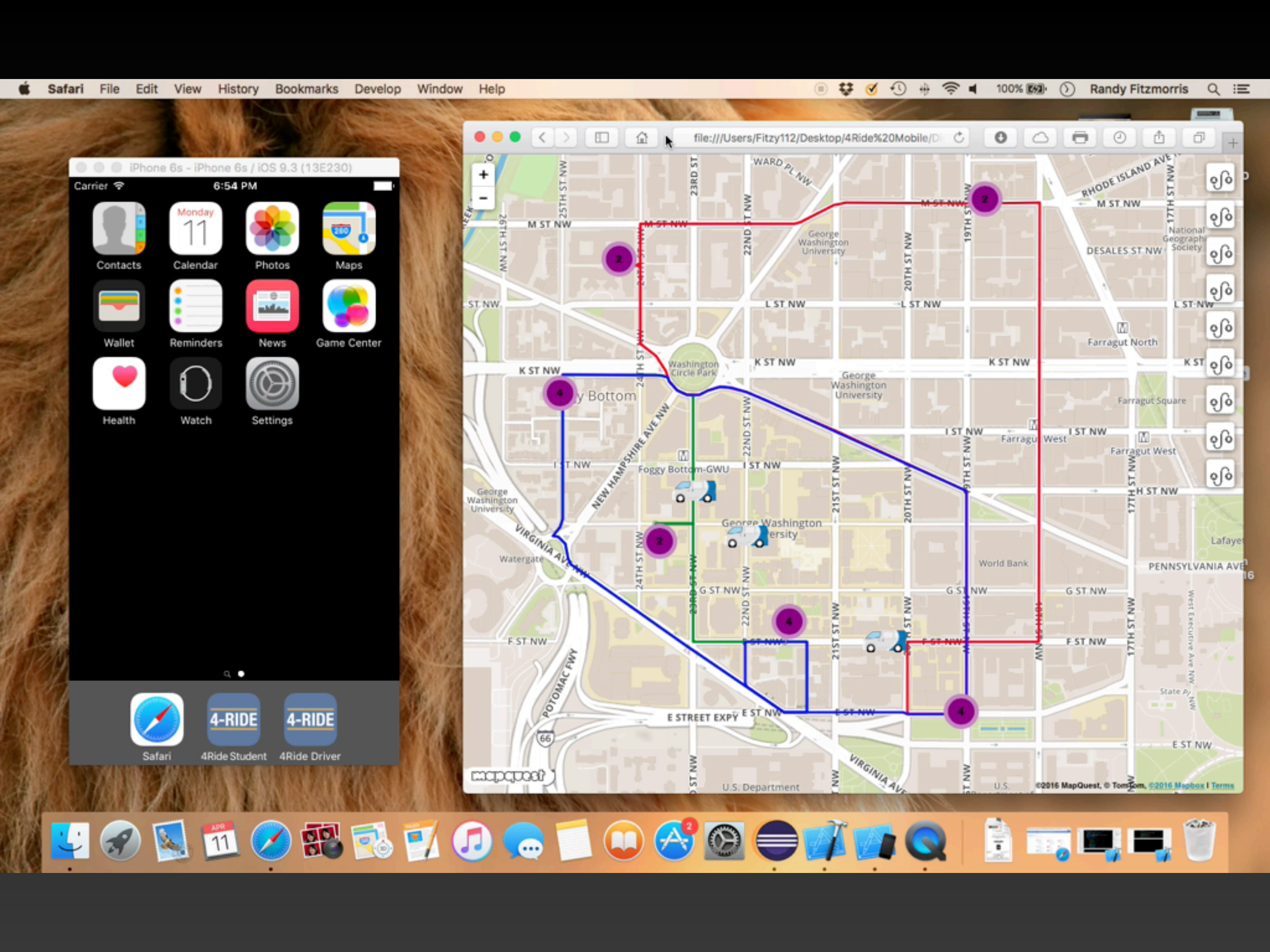
4-RIDE Drivers



Solution

- Elegant scheduling
- Effective communication
- Beautiful interface





iPhone 6s - iPhone 6s / iOS 9.3 (13E230)

6:55 PM

Your Itinerary

Map

2006-2042 H St NW

.00 mi

912 New Hampshire Ave NW

.33 mi

950 25th St NW

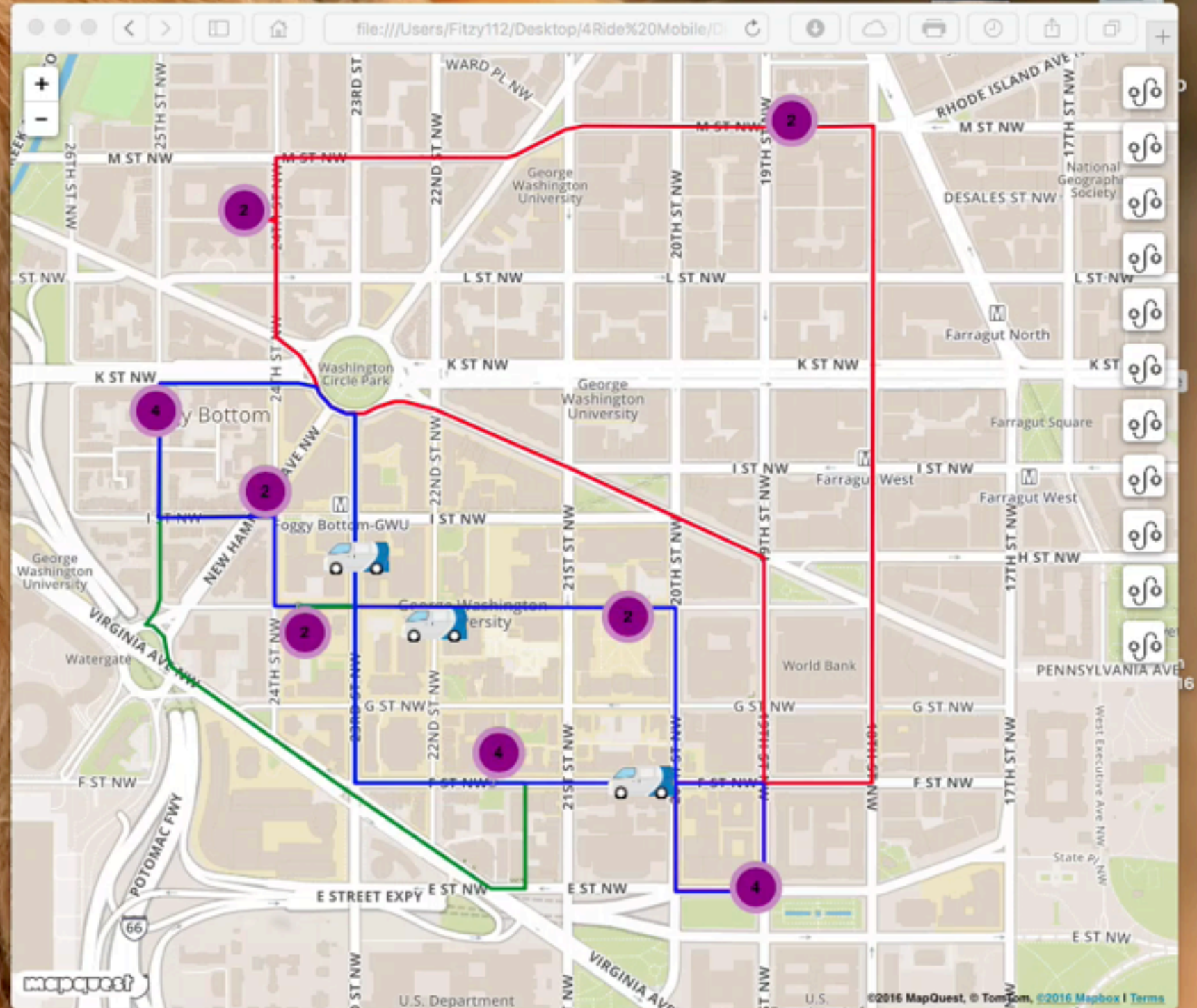
.45 mi

2135 F St NW

.16 mi

1957 E St NW

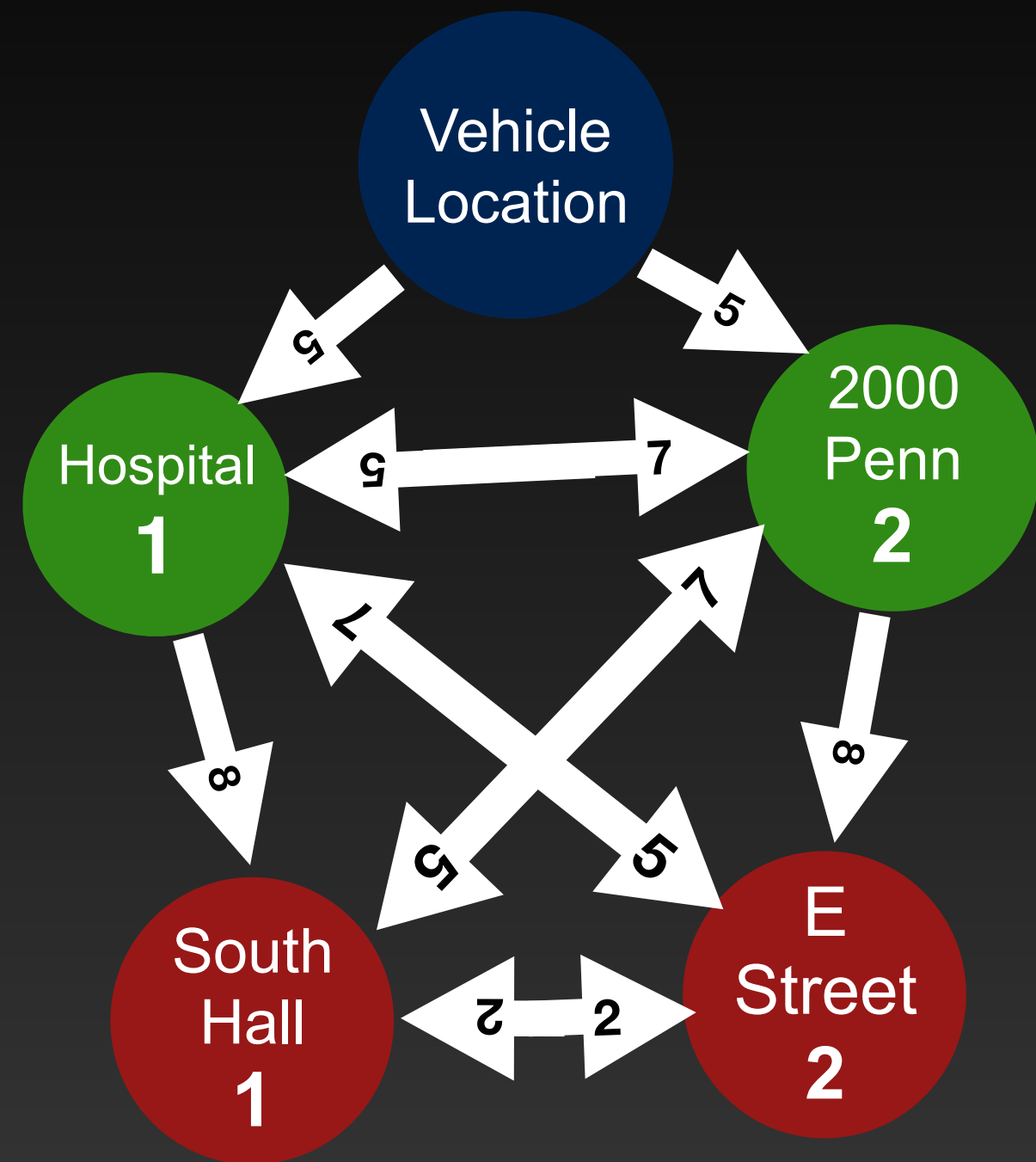
.26 mi



System Overview



Optimal Itineraries



Locations Graph

$$\begin{array}{l} \text{Edge Weight} = \\ \text{Distance} + \\ \text{Priority} + \\ \dots + \\ \dots \end{array}$$

Travel Cost Calculation

Dial-a-Ride Approximation

Impact

