Policy Based Intersections

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The Problem

When traffic signals are uncoordinated or not timed for bus speeds:

1. **Travel time is increased**
2. **Reliability is negatively affected.**

- Translink Reliability Report 2019

The Solution

Policy based intersections. By assigning priority to certain modes of transportation:

1. Their movement is more predictable
2. Wait times are reduced.

How?

Using machine learning we can detect vehicles and pedestrians and automatically respond via traffic signal to allow them to move freely.

https://photos.app.goo.gl/cs9YEUkj2GTtjtZD6

Policy Examples

Bus

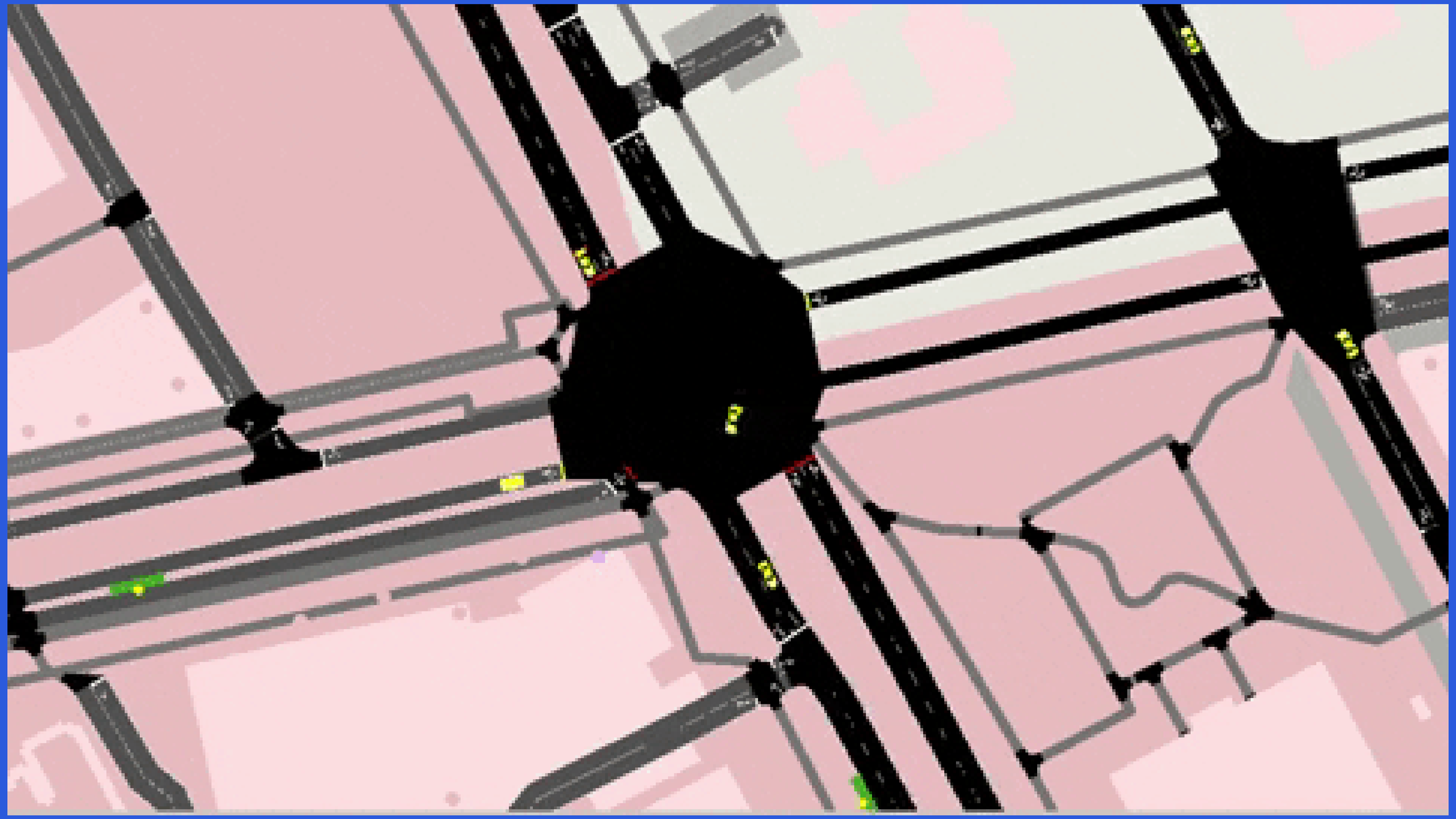
Green lights stay green while a bus is approaching the intersection.

Pedestrian

Pedestrian cross signals have more priority to increase the flow of foot traffic.

Cyclist

Changing signals when cyclists are approaching during peak hours.



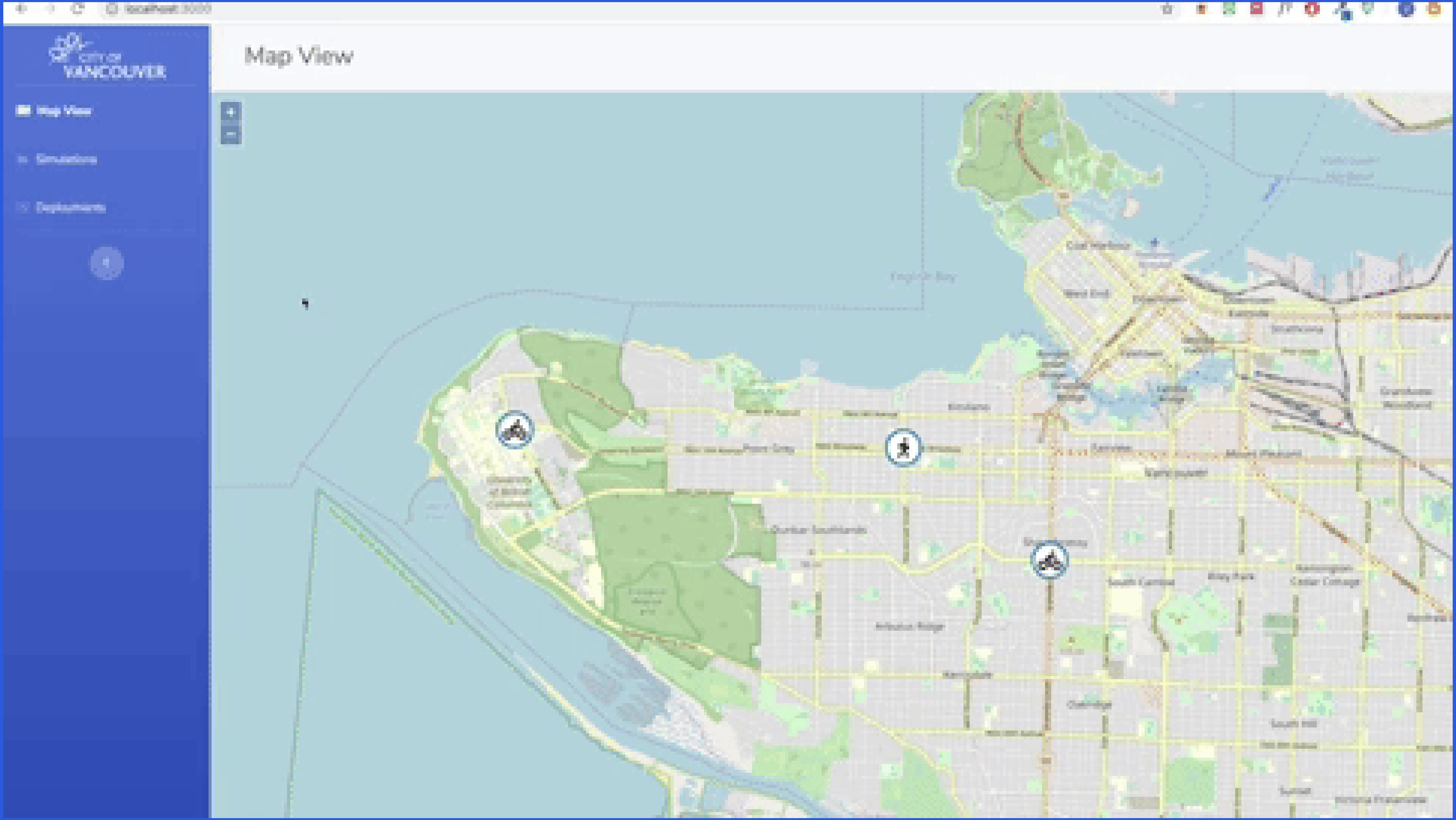
Feasability

Achieved with less than $200 of Hardware.

Able to be implemented on today's intersections.

Each device can be controlled individually.

Controllable through intuitive user interface.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Map View
Simulations
Deployments
Map View

Reshaping cities around people,
rather than cars.