

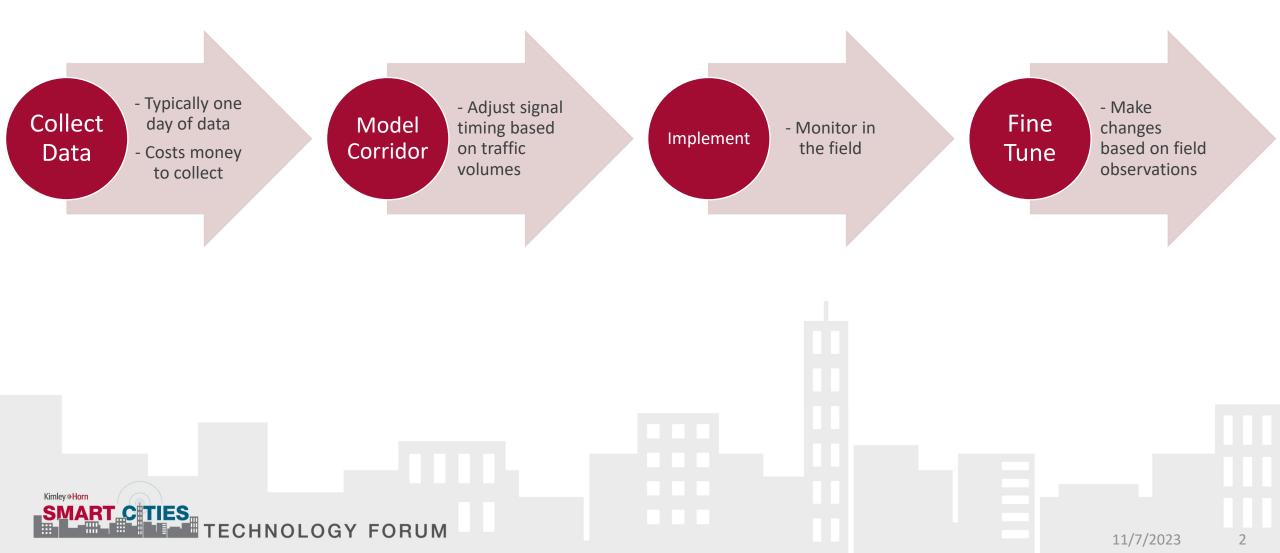
## **ATSPM & Signal Retiming**





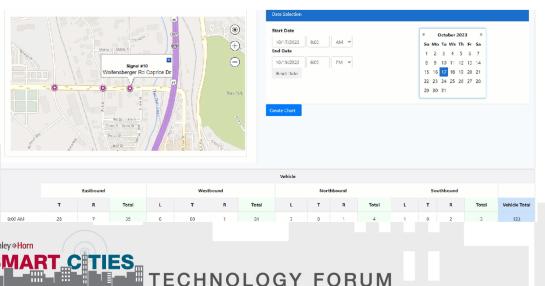


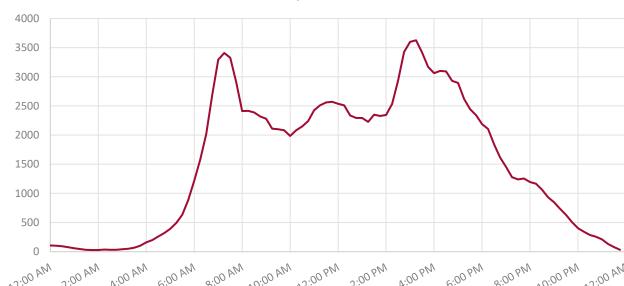
## **Traditional Retiming**



## **ATSPM for Signal Timing**

- Unlimited count data available
- Metrics helpful for decision making
  - Split Failure
  - Arrivals on Green
  - Delay





Weekday Volumes Total

## **Pros and Cons**

Pros

Unlimited data

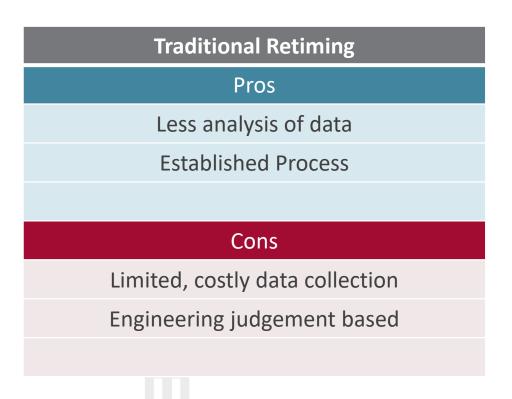
Data driven decisions

Easily tracked improvements

Cons

"Information overload"

Requires configuration



# **Configuration Requirements/Reports**

Detectors must be configured correctly

**Good data** 



**Good results** 

- Certain reports necessary
  - Turning Movement Counts
  - Arrival on Green
  - Purdue Split Failure

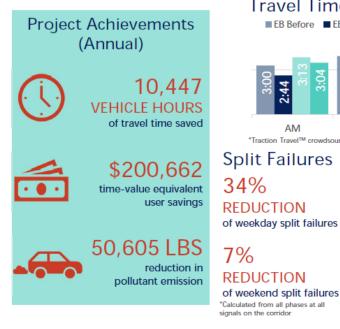


### Results



#### Plum Creek Parkway Performance Metric Summary





#### Travel Time Savings ■ EB Before ■ EB After ■ WB Before ■ WB After \*Traction Travel<sup>TM</sup> crowdsourced data for a typical weekday Split Failures Travel Time Index Post Implementation 34% 1.501 REDUCTION **AVERAGE TTI** of weekday split failures in the westbound direction 1.250 **AVERAGE TTI** REDUCTION

in the eastbound direction \*Calculated from BlueToad™ device

data for all time periods

Arrival on Green Percentage





## **Next Steps**

- "Live" dashboard for results
  - Traction Metrics, etc.
- Selection of corridors based on data driven analysis



# Thank you!