Power to the City!

Smart City Connect 2025

Paul Hoekstra

Business Unit Director USA

TNL

Request Slides

Booth 300 for Live Demo

Redefining
solutions

The Transformation was
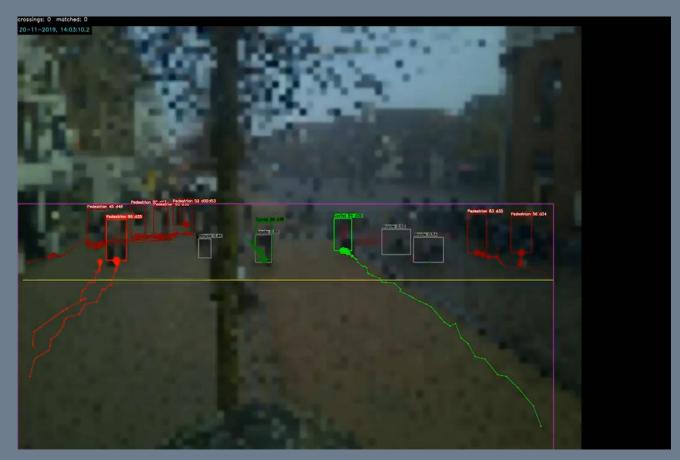
Inevitable

Redefining
solutions

AI Edge Sensor: FlowCube

Near Miss Detection

Camera 2

Camera 1

Camera 4
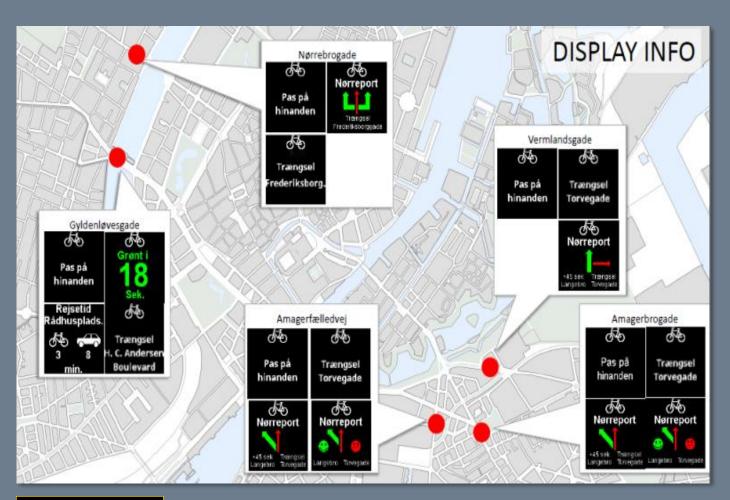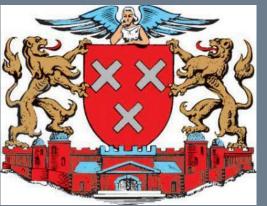
Camera 3
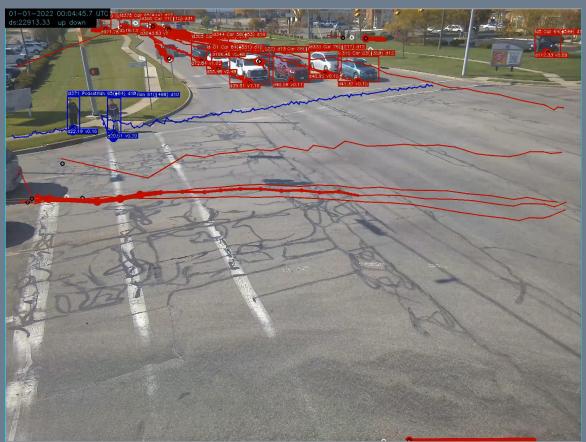
Pre-defined scenarios respond to actual volumes and speeds by mode, and weather circumstances to implement policies

City of Breda
The Netherlands

Parking Occupancy
-> More data

Connected Infrastructure

Scenarios
-> Action, Control

Value for Citizens
-> Guide to available parking
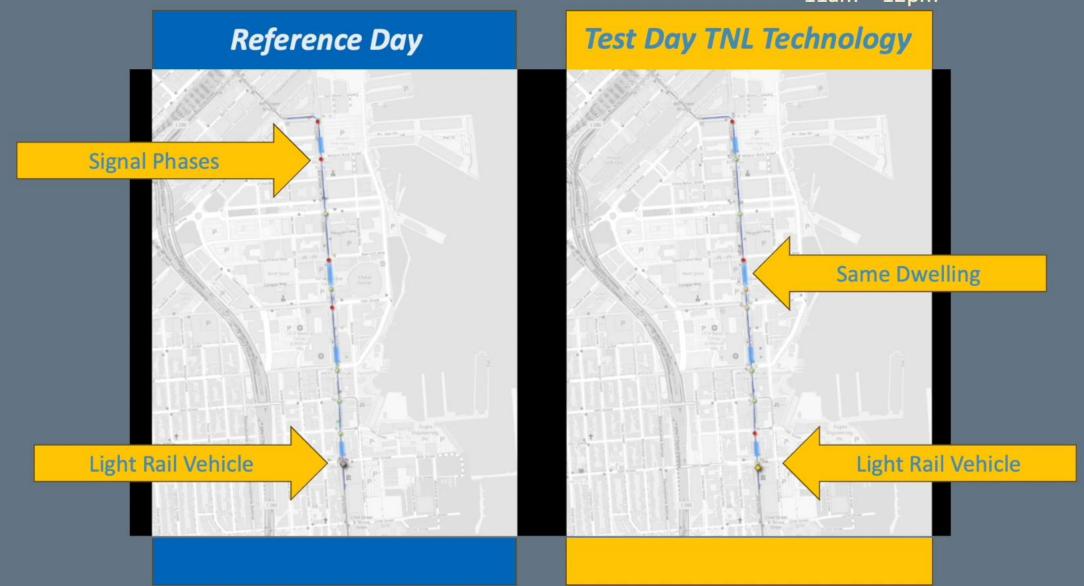
MobiMaestro: the suite empowering 28 of the 30 larger cities in The Netherlands, Oslo, Copenhagen, Helsinki, and Stockholm.

Let's Race!

Reference Day

Test Day TNL Technology

Signal Phases

Same Dwelling

Light Rail Vehicle

Light Rail Vehicle
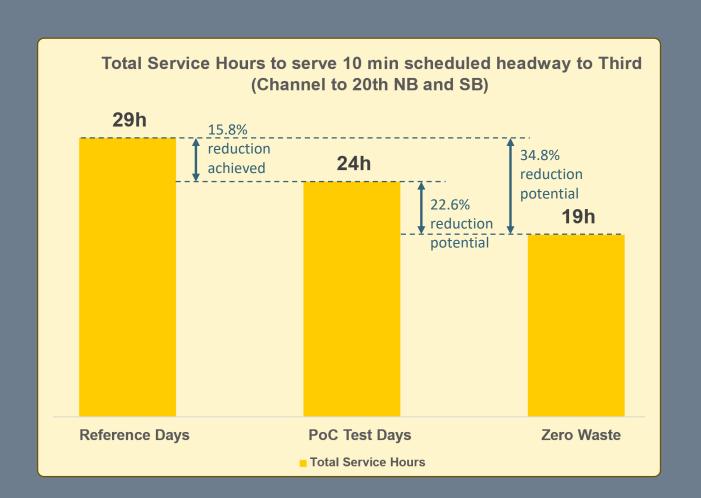
Service Hours is the measure of how many operational hours are spent to serve the citizens – Results SFMTA

Total Service Hours to serve 10 min scheduled headway to Third (Channel to 20th NB and SB)

- 29h — Reference Days
- 24h — PoC Test Days
- 19h — Zero Waste

15.8% reduction achieved

22.6% reduction potential

34.8% reduction potential

■ Total Service Hours

T-Line Current
- 12-14 LRVs
- 80 min travel

SFMTA Transit Planners Estimates
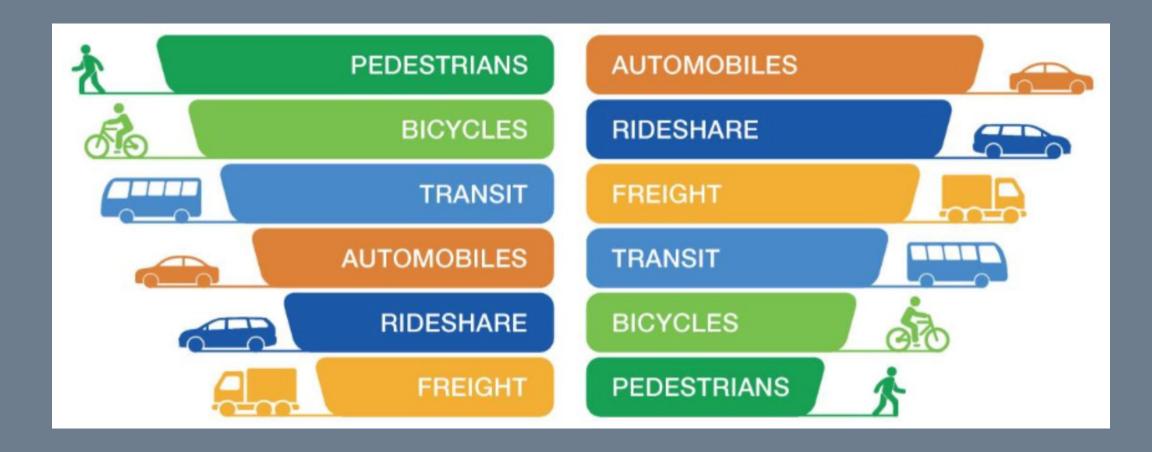- 8-11 LRVs
- 60 min travel

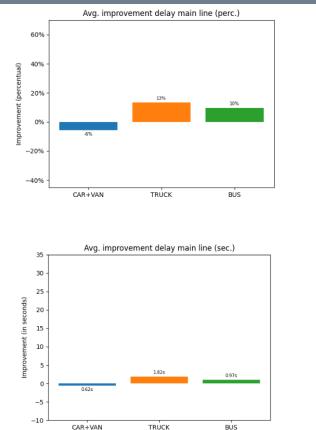OpEx saving: $1.4M / vehicle / year

2.01ml

Envision Dublin Community Plan

20

Implement in real-time, measure, adjust => deliver value
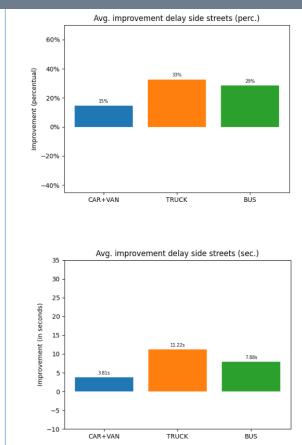
Waco (TX) – US DoT SMART Grant Stage I

"If technology doesn't enable results measured in terms of benefits to Citizens and Businesses, why bother?"

Use Cases

1. **Pedestrians**: Optimize traffic flow to increase pedestrian experience and increase sales tax revenue in downtown
2. **Students:** Improve active modes to support students traveling between campus and services
3. **Transit:** Significantly reduce red-light delay for Transit without impacting any other mode
4. **Events**: Improve travel experience for basketball arena visitors

Citizen- and business-centric success criteria. Implementation within 6 months, 12 months testing

Technology with Purpose
Driving Real Value for Citizens and Businesses

Monday, 2:10 PM - 3:00 PM
Room 212 A

Request Slides

Nora Roy
Senior Transportation Planner
Waco Metropolitan Planning Organization

Marc Dilsaver
Transportation Program Manager
City of Dublin, OH

Redefining
solutions

23