Asset Management

Issue Management

Scenarios

Parking

Event Management

Multi-Mode Optimization

Transit

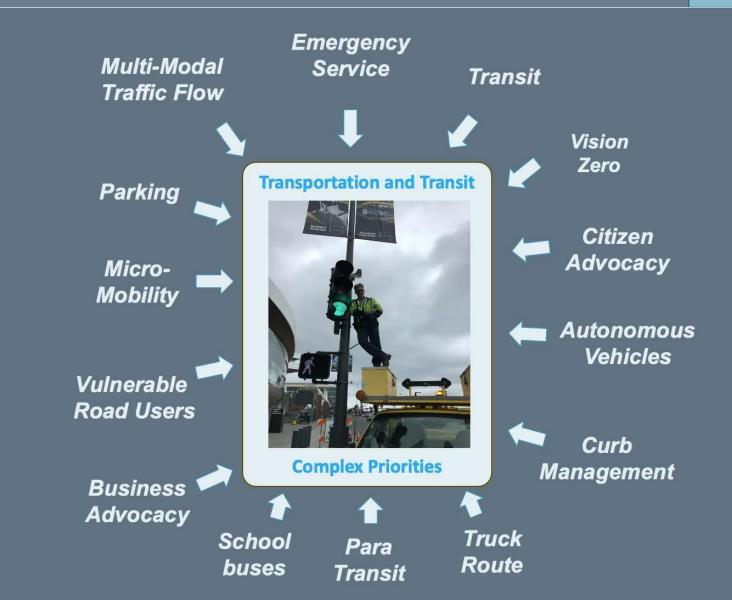
Safety

Al Edge Sensor FlowCube

Decade long Strategic Partner
38 year-young Company

Amsterdam, Stockholm, Copenhagen, etc.
Solution delivering World-Class Mobility

Market Leader in Northern Europe



Monitor All Connected Assets
Integrated Issue Resolution

Signal Controller State and Behavior Scenarios to Automate Responses

Asset Management is Trivial

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Al Edge Sensor FlowCube

1.Issue Identification

2. Engineer Response

3. Automated Scenario

Redefining solutions

Actions to inform travelers

Monitor All Assets

Based on Occupancy Rules Reduce Traffic Seeking Parking

Fill Garages, Reduce **Travel Time**

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Al Edge Sensor FlowCube

Actief Beschikbaar Concept / Historie Fout Verkeersregelinstallatietype Verkeersregelinstallatie Toeritdoseerinstallatie Inzinkbare paal Waarschuwingsbord Verwijslocatie status Operationeel Waarschuwing Gedoofd Inwinfout Storing Inactief

Verwijslocatie type

Verwijslocatie

Grafisch display

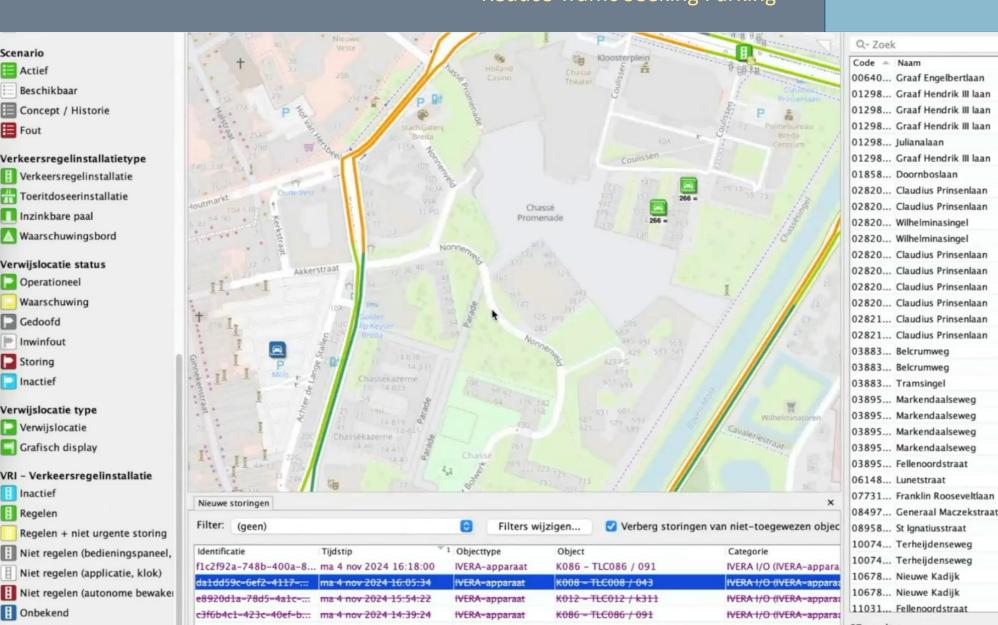
Inactief

Onbekend

Regelen

VRI - Verkeersregelinstallatie

Scenario



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Al Edge Sensor FlowCube

Over 120,000 People

Green Towards Available Parking

Divert Non-Event Traffic

Integrated Control Across Jurisdictions



Gemeente **Amsterdam**

Regional Flow Optimization

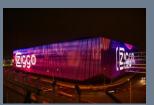
Alternative routes to approach the event area over the freeways



Ziggo Dome music hall



Johan Cruijff ArenA Soccer AFAS Live music hall









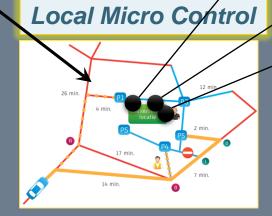




Integrated Traffic Management

Multi-jurisdictional:

- Rijkswaterstaat (Dutch Highways Agency)
- City of Amsterdam
- Province of Noord-Holland
- National Police
- Fire Department





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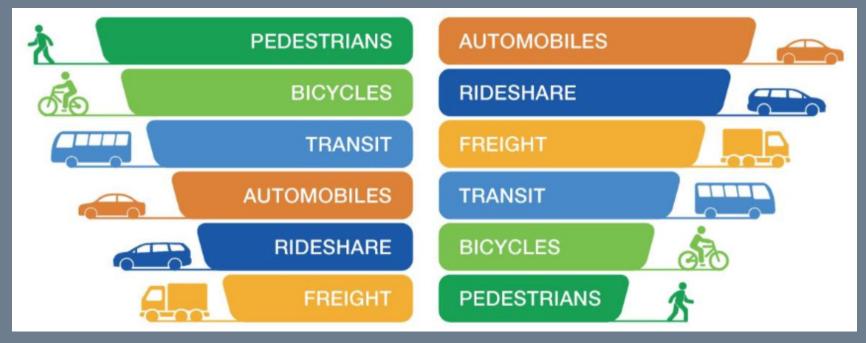
Service Citizens and Businesses with Mobility services

Continuous Tuning

Increase Return on Infrastructure Allocate Green based on Mode Priority

Policy Implementation

Envision Dublin (OH) Community Plan



Implemented

6 months ago

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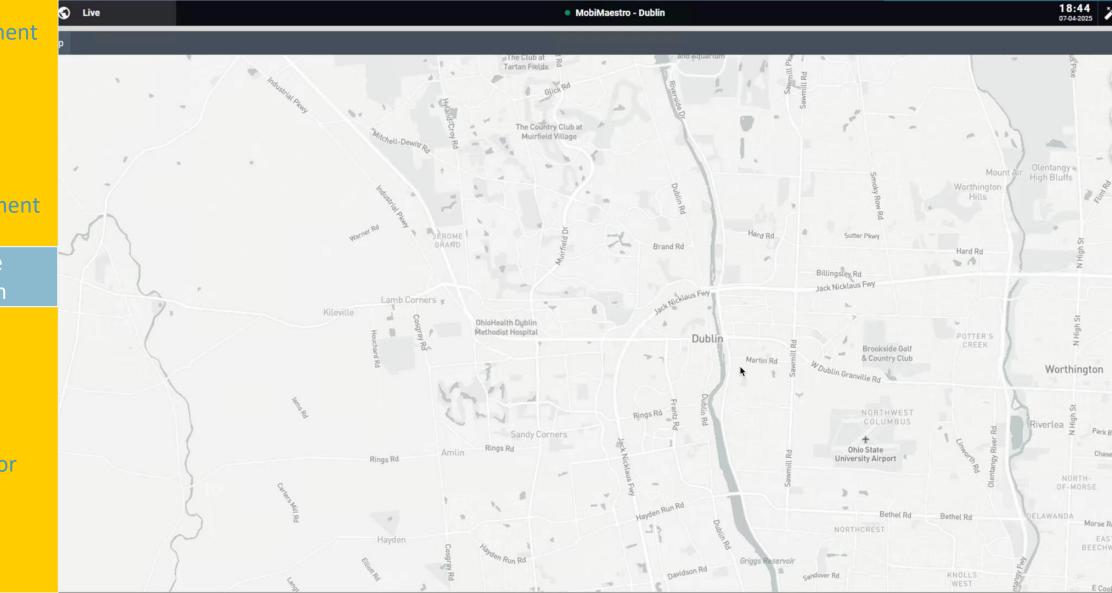
Al Edge Sensor FlowCube

Real-time Mode Prioritization

End-to-End Flow Optimization H

Dynamic Policy Implementation
High-Density Volumes, Travel Times, Delay

Centralized Control



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Al Edge Sensor FlowCube

Minimize Delay on all Approaches

Multi-Mode Prioritization

Dynamic Policy Implementation

Measure, Adjust, Optimize

By Approach Optimization



Main Line

Avg. improvement delay main line (perc.)

Avg. improvement delay main line (sec.)

Avg. improvement delay side streets (perc.) 60%40%20%-40%-40%-Avg. improvement delay side streets (sec.) Avg. improvement delay side streets (sec.) 35 Avg. improvement delay side streets (sec.)

TRUCK

CAR+VAN

Side Streets

Asset Management

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Safety

Al Edge Sensor FlowCube

Multi-Jurisdictional
Hardware Free

Continuous Balancing
High-Density Data

Material
Opportunity to
Remove OpEx

Oslo, Norway

Over 2000 buses

Flow Optimization (TSP)

Redefining solutions

Asset Management

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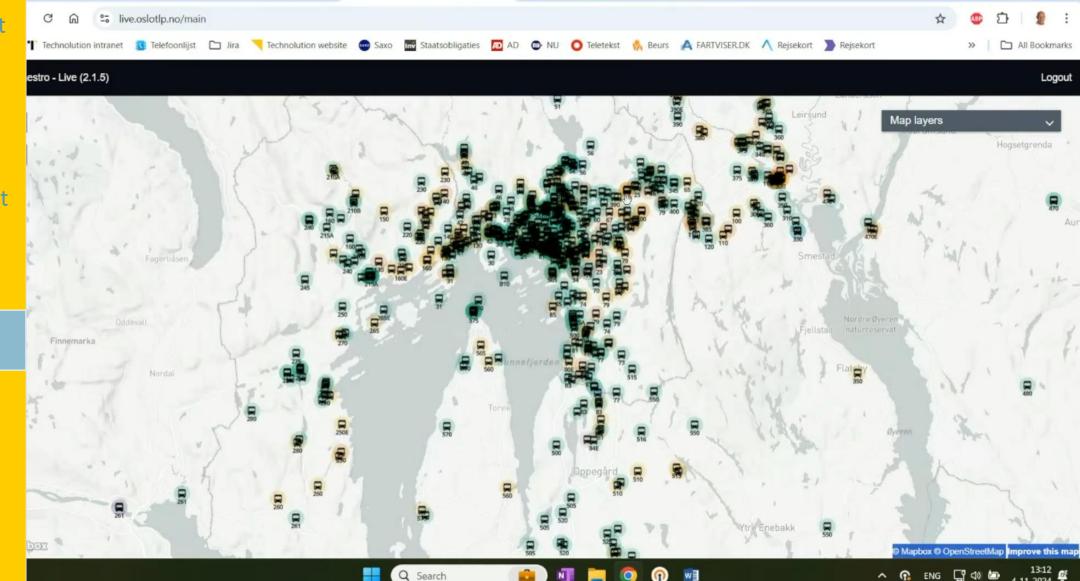
Transit

Safety

Al Edge Sensor FlowCube

Multi-Jurisdictional Hardware Free Continuous Balancing
High-Density Data

Shorter, Reliable Trips Result in Ridership



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Al Edge Sensor FlowCube

Implement Transit First Policy
Benefit Driven

Return on Investment < 2years

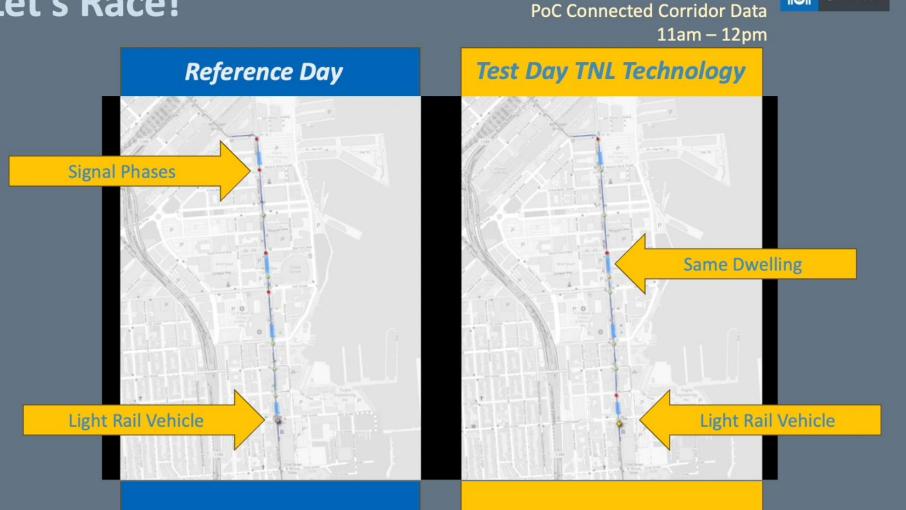
Self-Sustaining Programs

Simulation generated with SFMTA

Material
Opportunity to
Remove OpEx

M SFMTA

Let's Race!



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Al Edge Sensor FlowCube

Multi-Mode Near-Miss detection

Jay-walking Red-light Running

Hard Cornering
Speeding

Insights drive Saver Streets



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Al Edge Sensor *FlowCube*

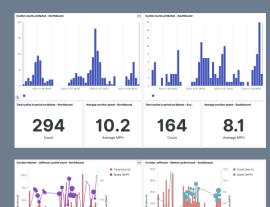
Multi-Mode Remote Configuration Privacy
Highly Accurate Volumes, Speeds, Path Cellular or IT Network

World-Class
Al Sensor











Al Edge Sensor: FlowCube



97.3% Accuracy

Redefining solutions

