

AVL Project Update

CM-15-22 Appendix B

DATE: May 4, 2022



An enhanced Automated Vehicle Locator (AVL) application to empower staff and create a mobile workforce

Strategic Benefits

Environmental Impact

- Analysis of driver/vehicle behaviours and efficiency will help reduce GHG emissions
- Reduction in vehicle idle time



Efficiency

- Improved fleet management/tracking
- Improved route optimization
- Visibility on usage



Digital Asset Investment

- Modernization of digital fleet assets
- Upgrading to latest industry telematics standards



Strategic Benefits



Productivity

- Enhanced software functionality
- Improved hardware reliability

Improved User Experience

- Streamlined user experience resulting in increased efficiency



Reduced Risk

- Improved software solution stability
- Vehicle faults sent directly to Maintenance team in real time

Data Quality and Availability

- Greatly improved vehicle data quality
- Vehicle data available live



Safety

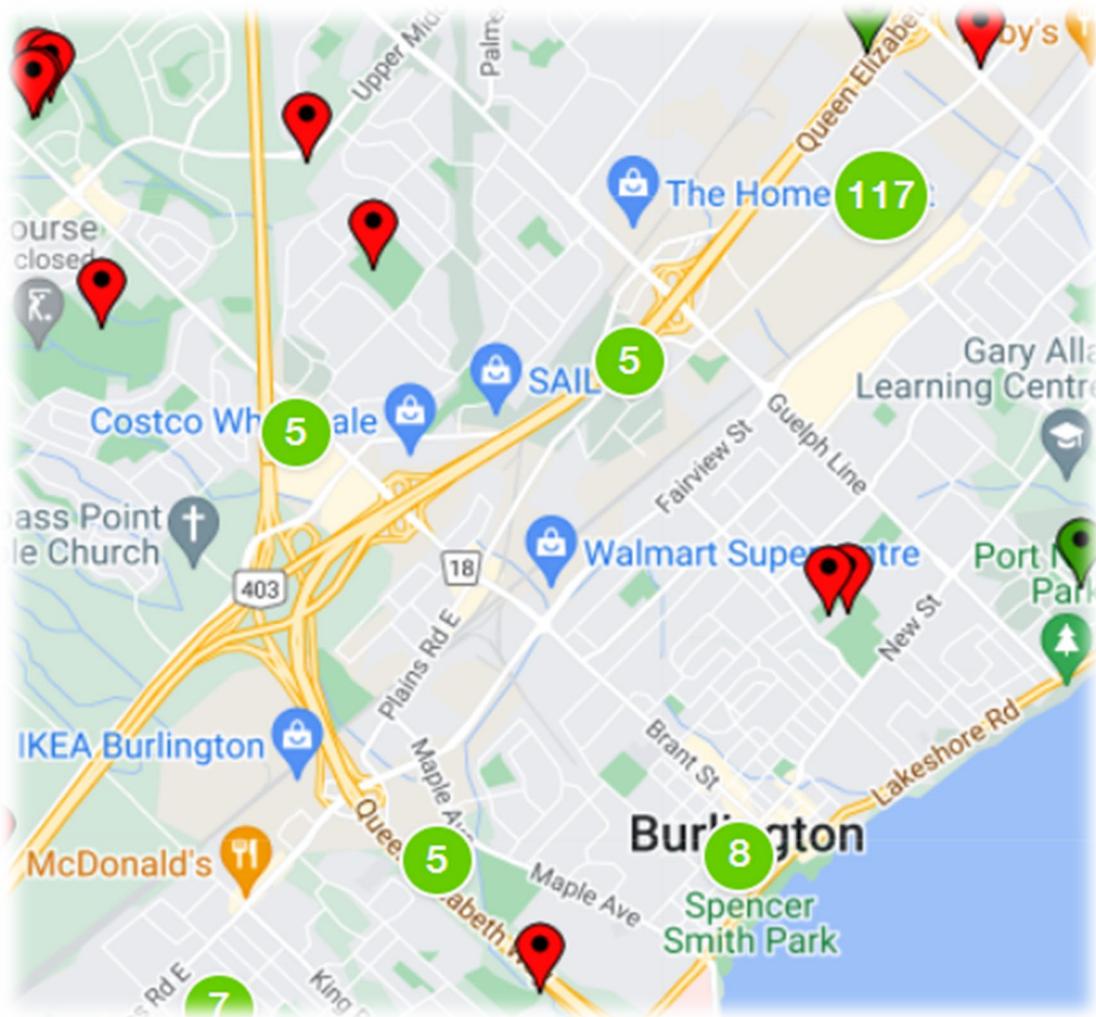
- Easier to locate vehicles and respond to incidents or accidents.

Implementation Schedule

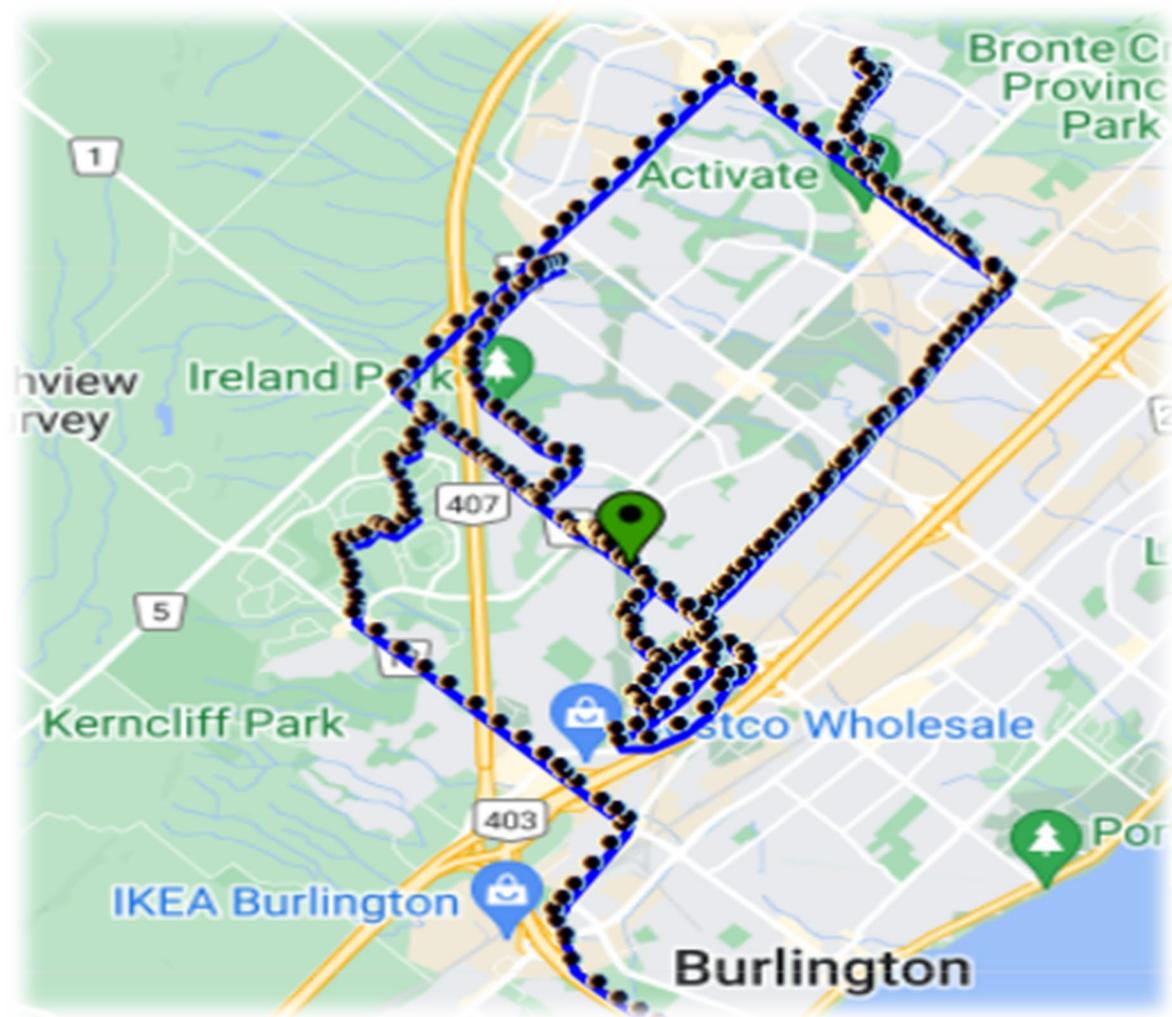
AVL Installs Completed

Activity	Progress	2020				2021				2022			
		1	2	3	4	1	2	3	4	1	2	3	4
RFP Process	100%	█	█	█	█	█							
Contract Negotiations & Award	100%					█	█						
Hardware Implementation	75%							█	█	█	█		
Software Configuration	50%							█	█	█	█		
Training	50%							█	█	█	█	█	█
Support, Future State Processes	15%								█	█	█	█	█
AVL Governance	5%											█	█
Change Management	30%				█	█	█	█	█	█	█	█	█
Communications	50%	█	█	█	█	█	█	█	█	█	█	█	█
Data Analytics (KPI's)	10%											█	█
Fleet System Support	30%							█	█	█	█	█	█
Project Close	0%											█	█
Post Implementation Report	0%												█

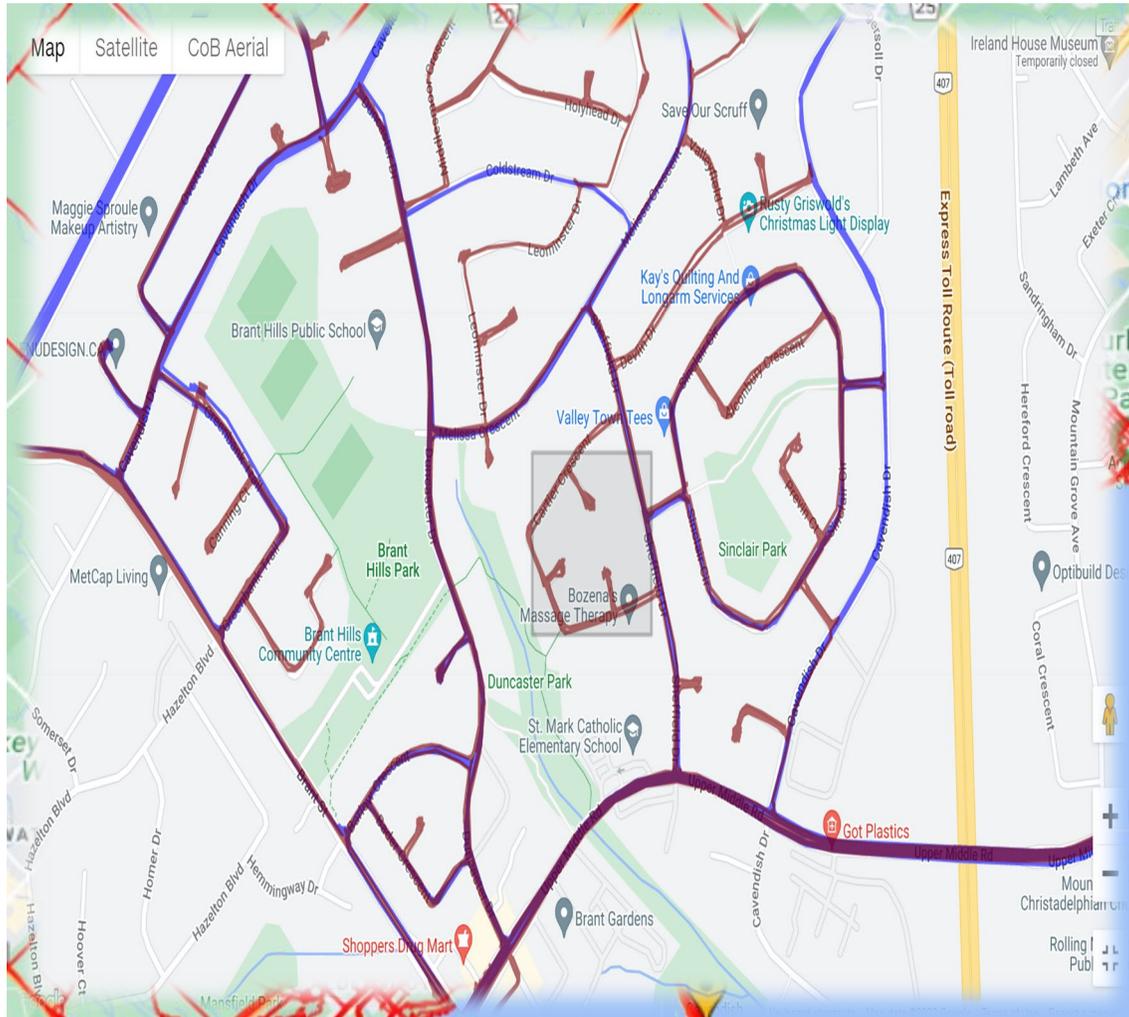
Live location of Vehicles



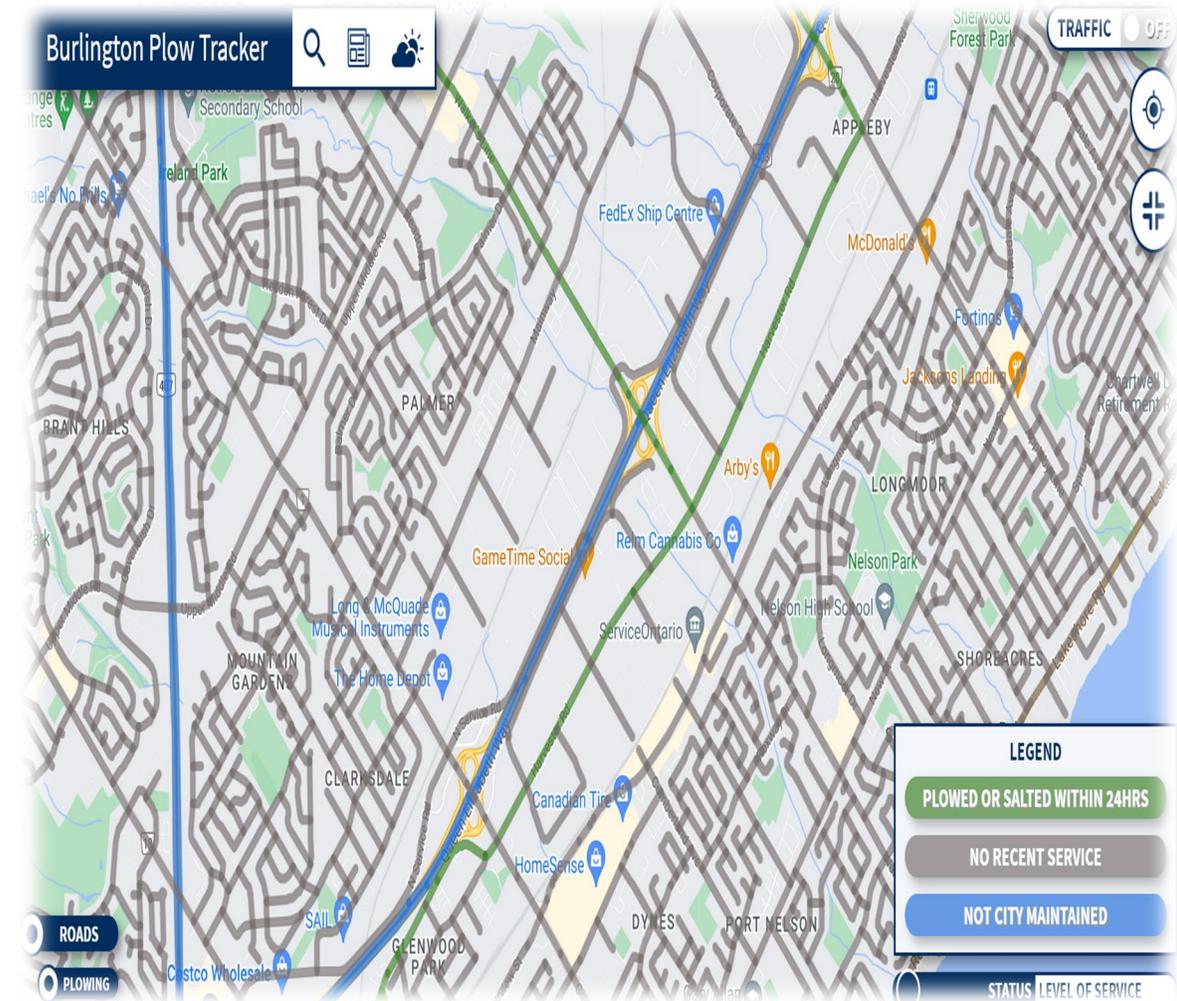
Historical vehicle data



Live Winter Progression



Burlington Plow Tracker



User and Resident feedback



Live Progression Module

Equipment | Progression

from 2022-02-25 00:00:00 to 2022-02-25 23:59:59
Required percentage for complete visit: 70

GROUP (40)	% COMPLETED
<input checked="" type="checkbox"/> Area 1 Roads	100
<input checked="" type="checkbox"/> Hand Machine Side...	53
<input checked="" type="checkbox"/> Local Roads Only	98
<input checked="" type="checkbox"/> Local Sidewalks	55
<input type="checkbox"/> Primary Sidewalks	93
<input type="checkbox"/> Roads	92
<input type="checkbox"/> Roads Primary Only	100
<input type="checkbox"/> Roads Route 10	100
<input type="checkbox"/> Roads Route 11	99



The new AVL system will continue to provide additional benefits for the City and its staff

Project Goals and Deliverables

1



Business Requirements

Hardware and Software requirements met

2

Configuration

Profiles for Mobile Workforce Developed

3

Training and Support

Training and support plan established



Develop Future State

Develop future state processes for operations, DVIR and HOS

Process Engineering

Engineer new processes for Device usage, Support plan, Administration and Governance

Test and Refine

Test and measure success of processes using Webfocus for continuous improvement



Focus Reports

Provide leadership and support staff reports within the application

Webfocus BI

Create dashboards for service areas using telematics data

KPI Development

Develop enterprise level KPI's

Future Project Enhancements – KPI Development



UTILIZATION METRICS

Work across the Fleet to identify and manage vehicle usage and create dashboards to support KPI objectives



FUEL USAGE

Utilize AVL data with other City software to calculate fuel usage by vehicle

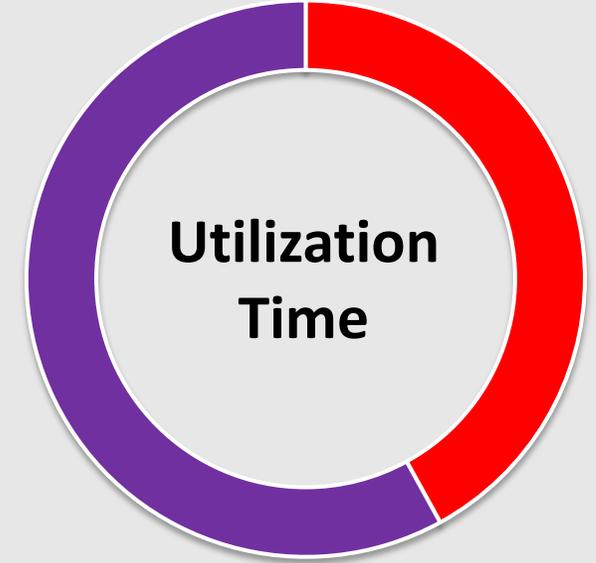


GREENHOUSE GAS EMISSIONS

Identify vehicles contributing to high emissions to optimize the Fleet with greener vehicles or driver vehicle operation

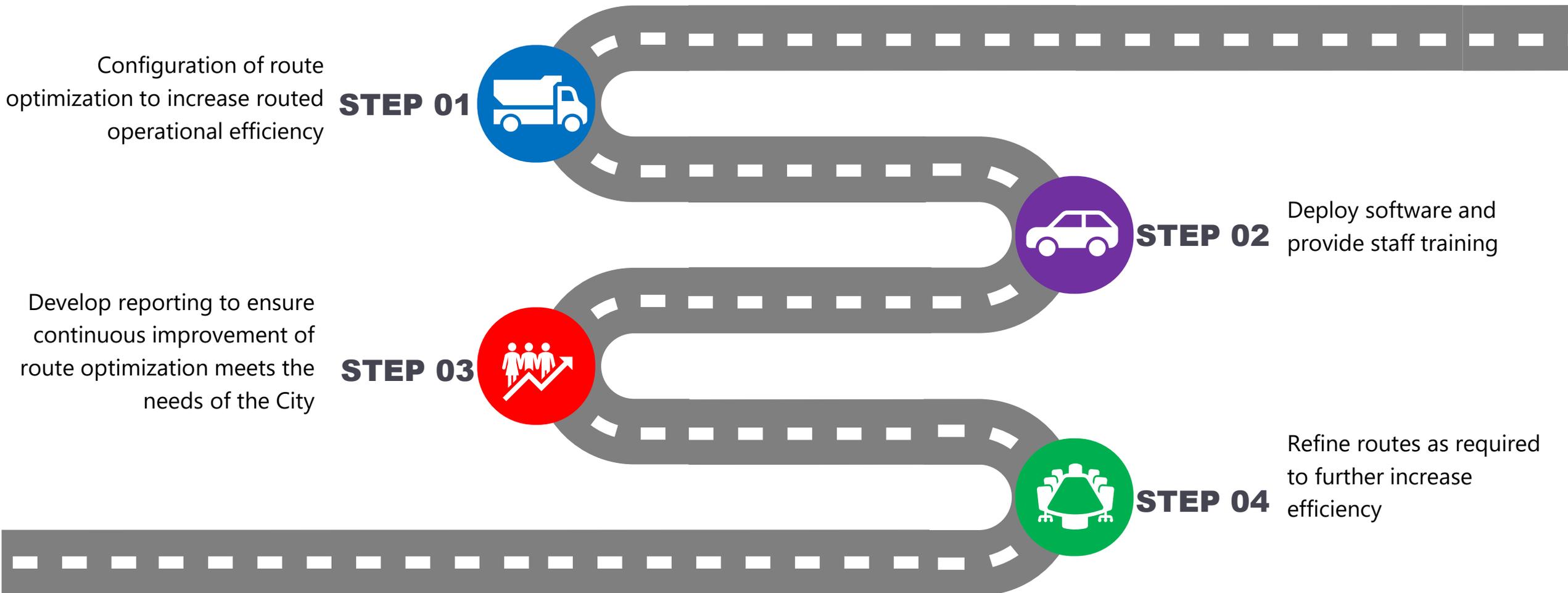


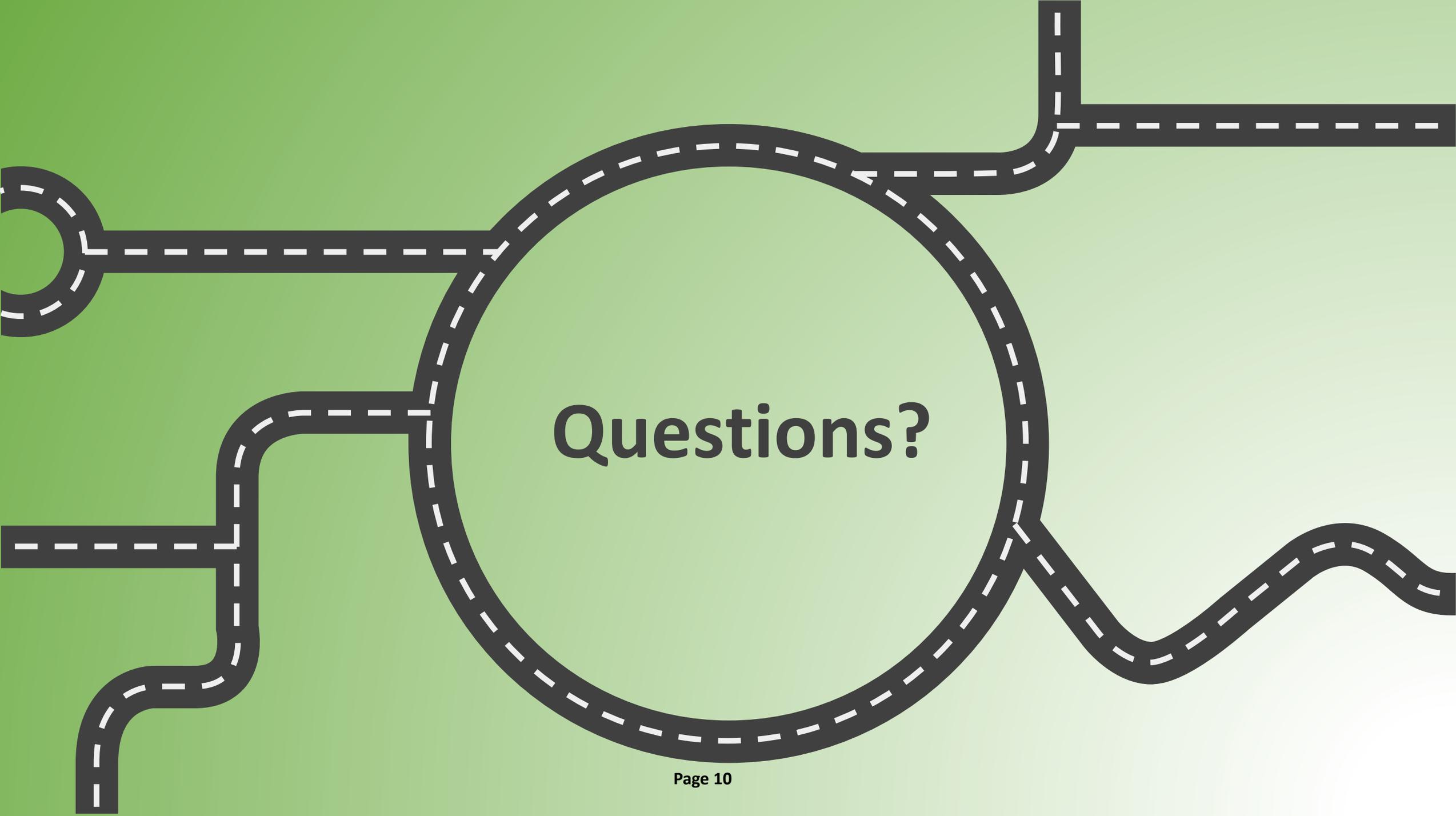
Monthly average



4.8 hours per day

Future Project Enhancements – Route Optimization





Questions?