

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

**INSPIRE
EMPOWER
CONNECT**

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

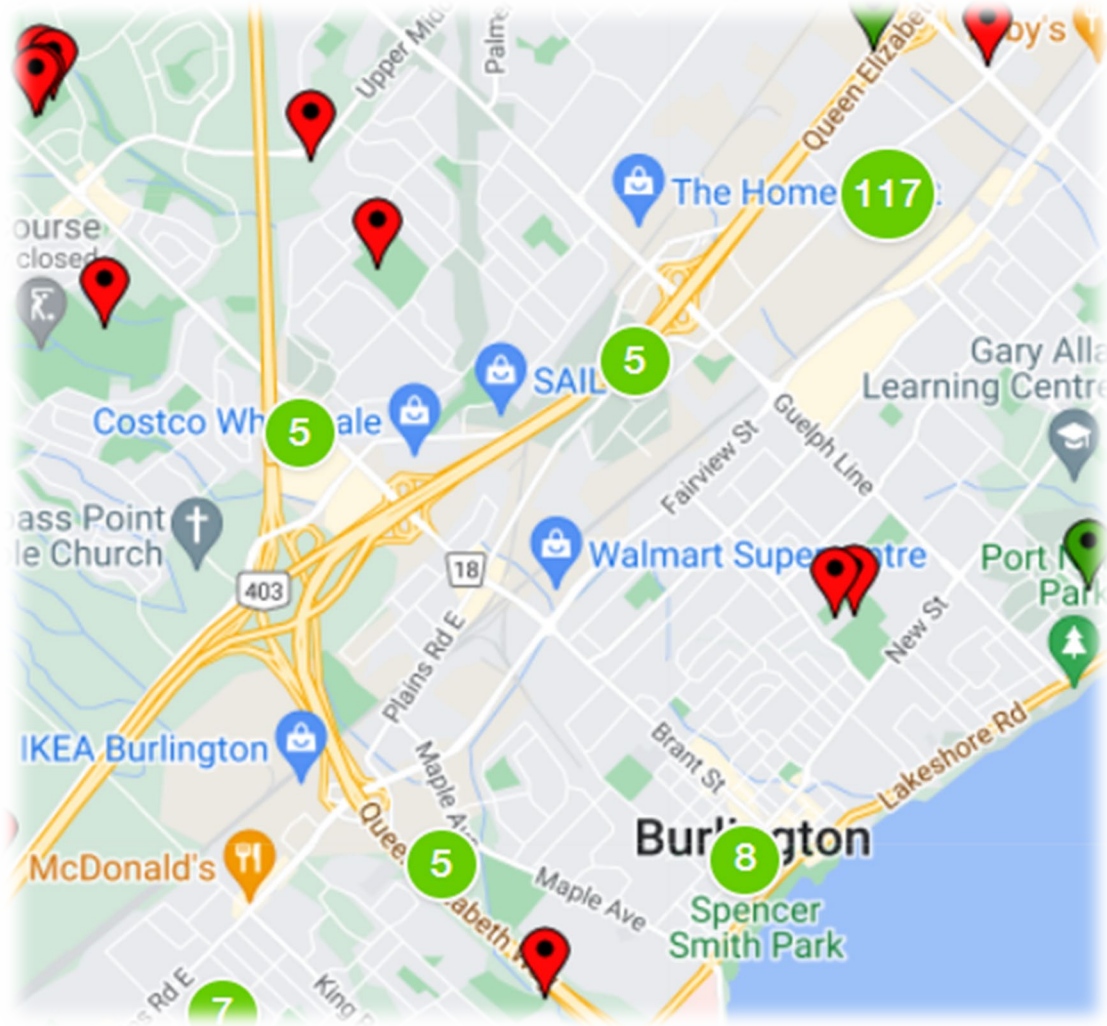
- Easier to locate vehicles and respond to incidents or accidents.



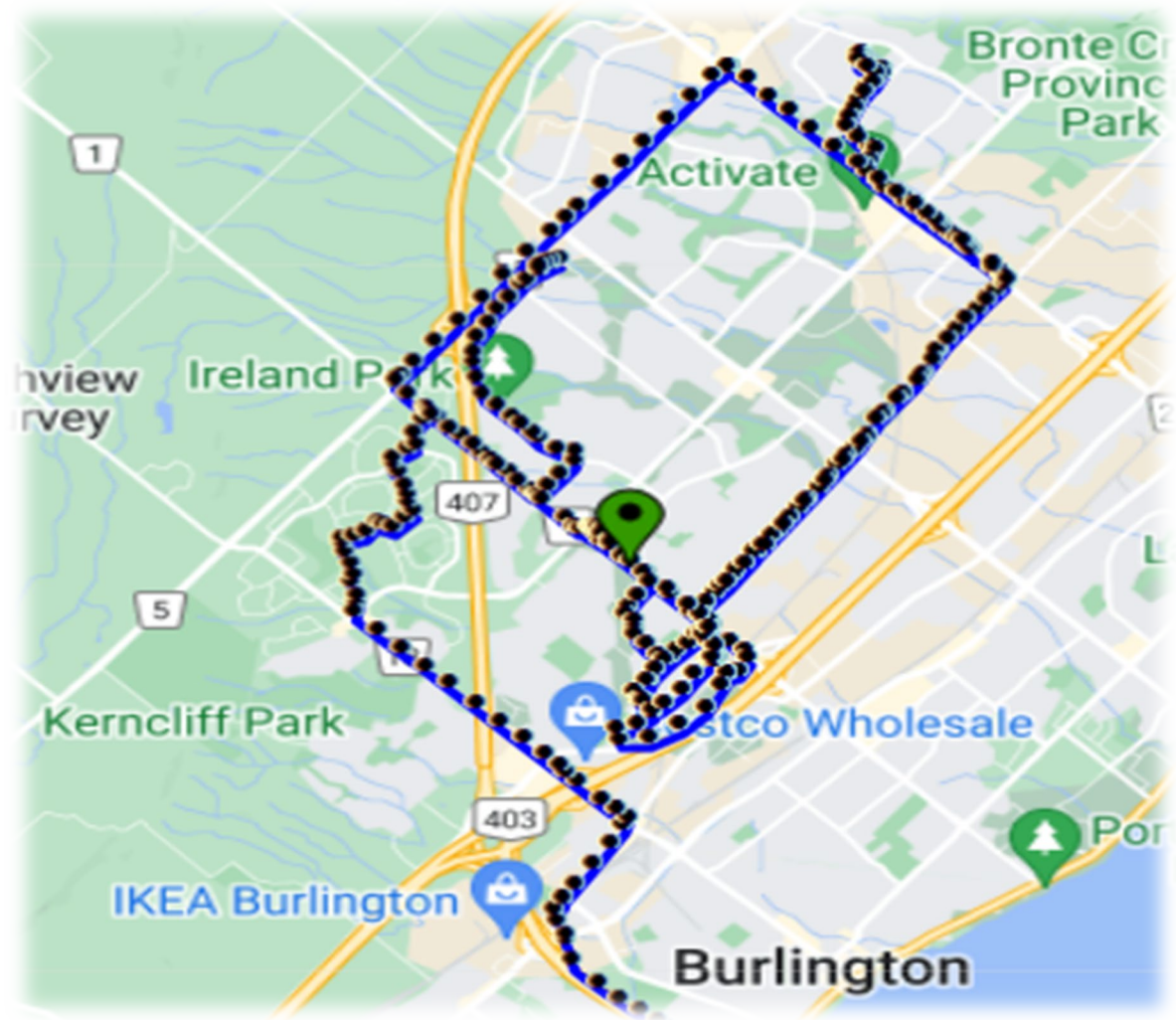
Implementation Schedule

[illegible]

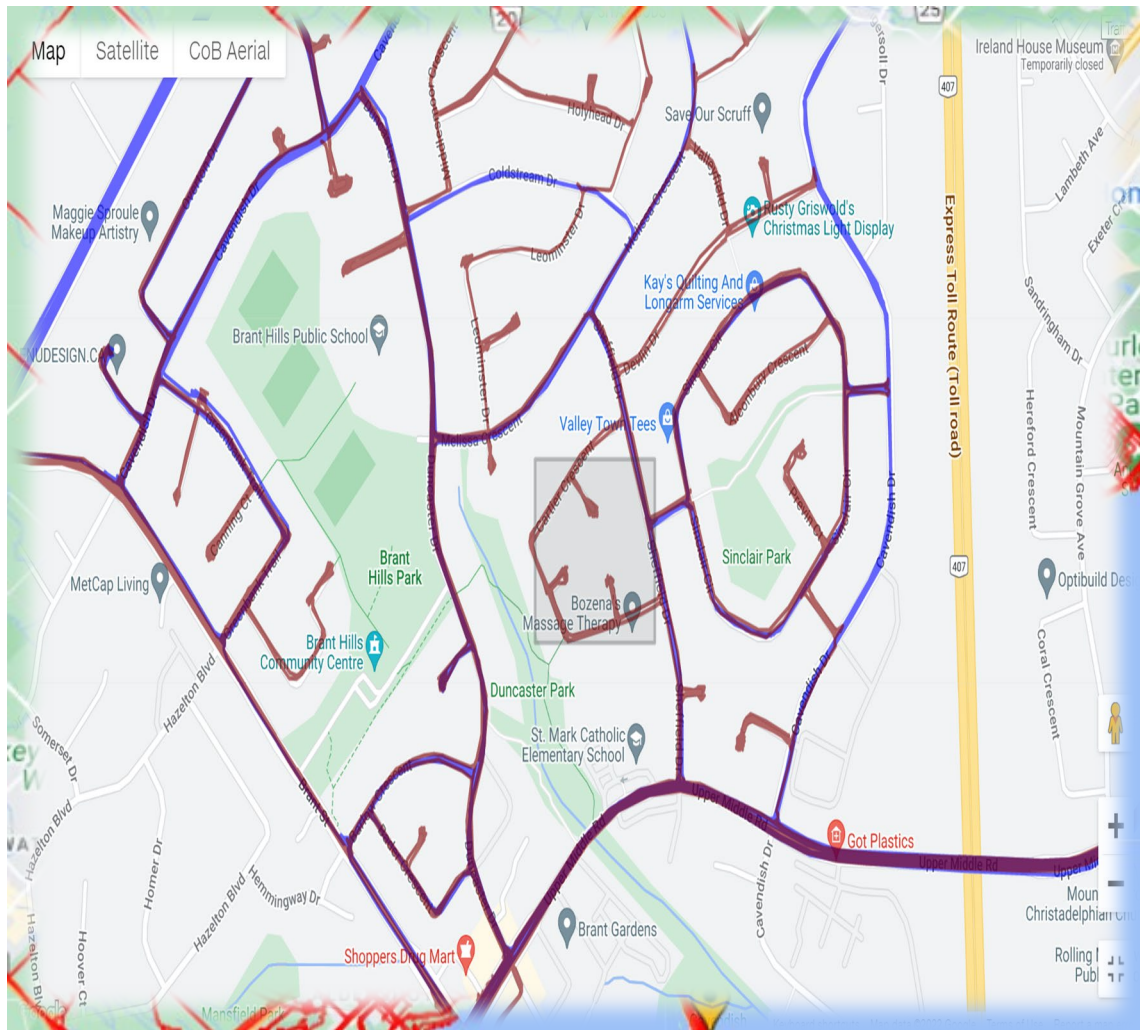
Live location of Vehicles



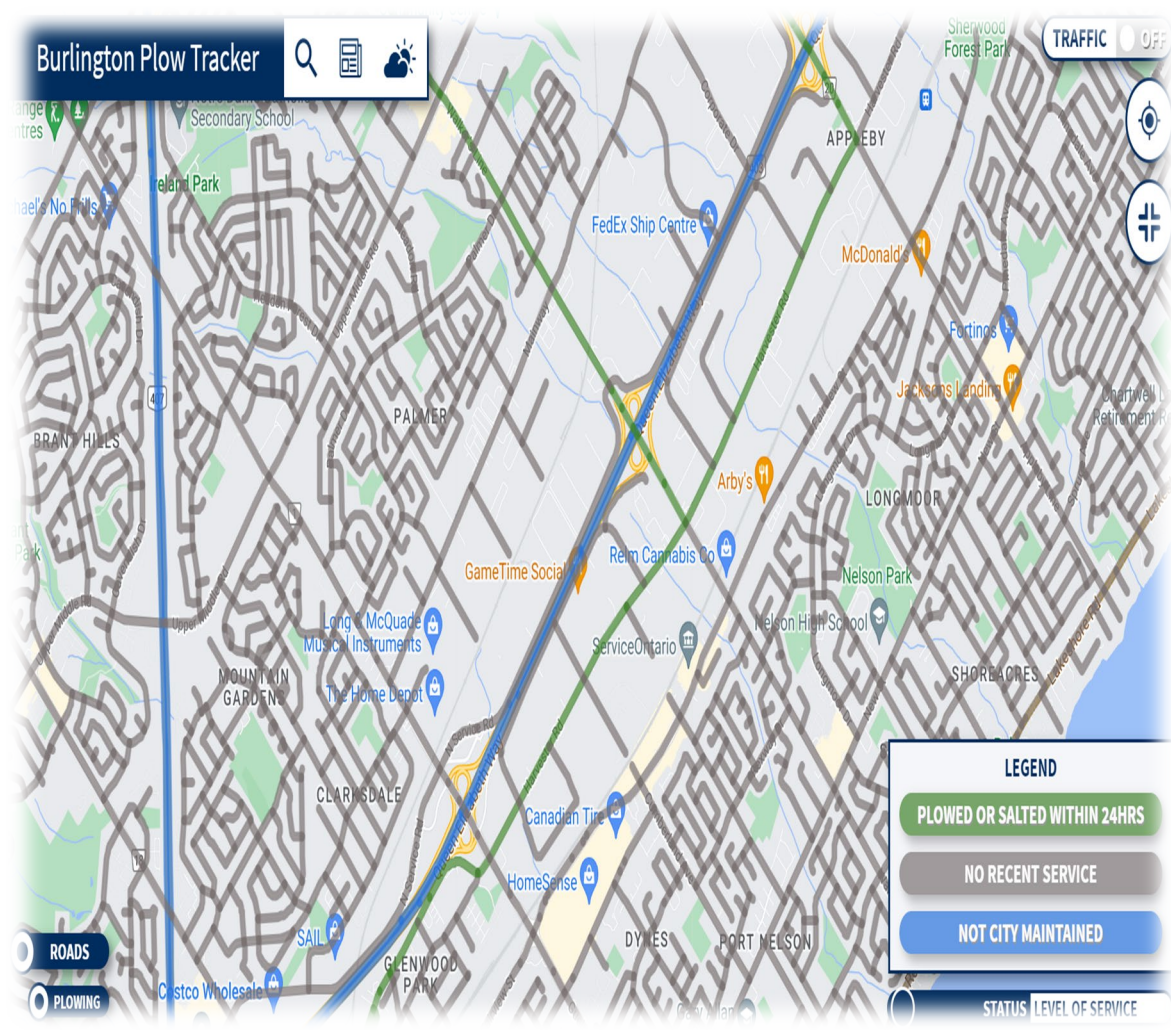
Historical vehicle data



Live Winter Progression



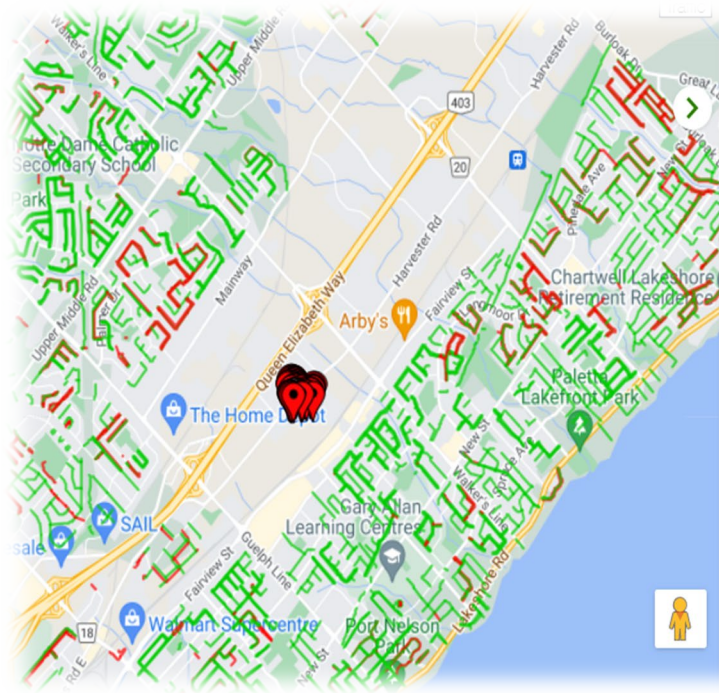
Burlington Plow Tracker



User and Resident feedback



Live Progression Module

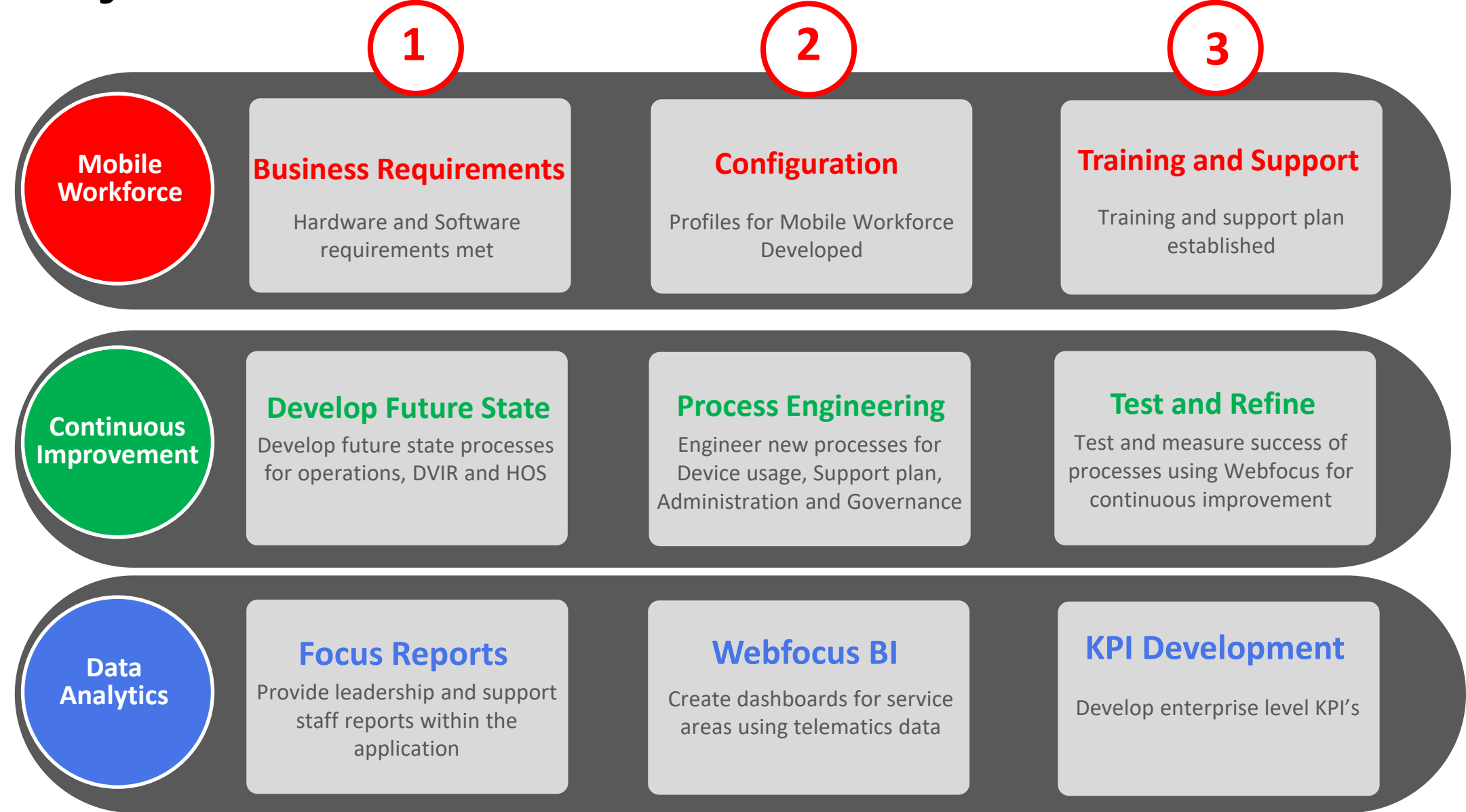


Equipment		Progression	
		from 2022-02-25 00:00:00 to 2022-02-25 23:59:59 Required percentage for complete visit: 70	
GROUP (40)		% COMPLETED	
<input checked="" type="checkbox"/>	Area 1 Roads	100	✓
<input checked="" type="checkbox"/>	Hand Machine Side...	53	✓
<input checked="" type="checkbox"/>	Local 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



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

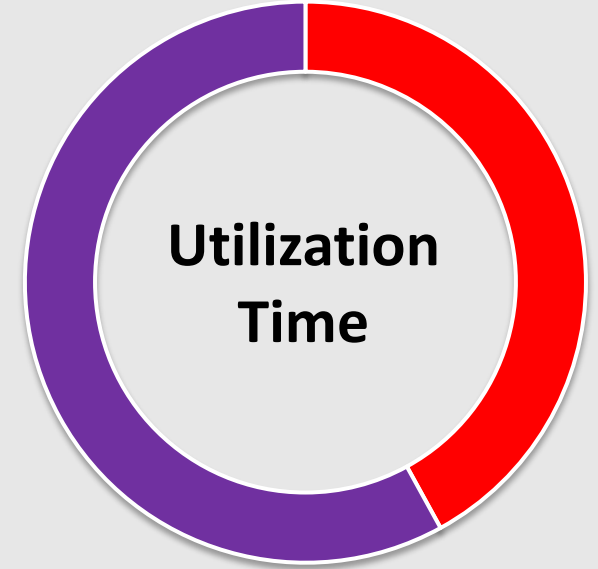


GREENHOUSE GAS EMISSIONS

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

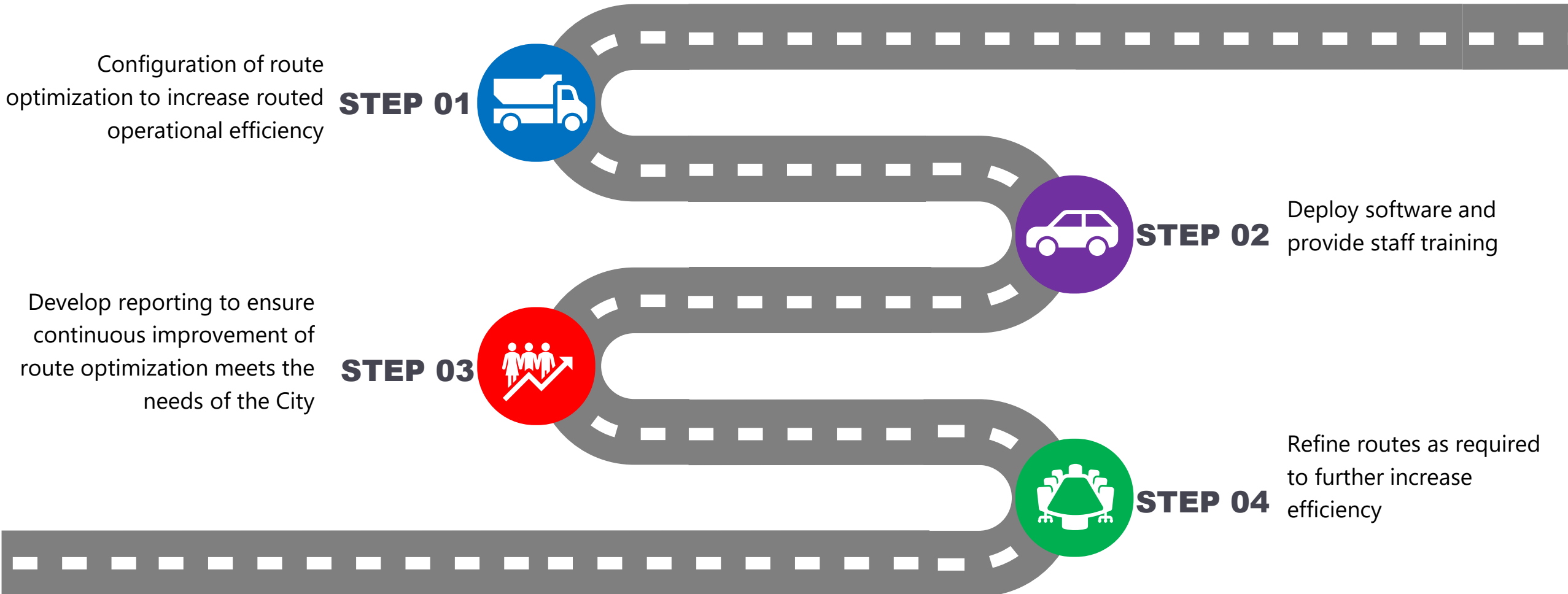


Monthly average



4.8 hours per day

Future Project Enhancements – Route Optimization



A large, stylized, dashed line drawing of a question mark is centered on a green background. The question mark is composed of a thick, dark grey outline and a dashed white interior. It has a large circular body and a curved tail that extends to the right. The background is a solid green color.

Questions?