Liberty Ave in Pittsburgh, PA, USA

This is a sample project to show functionality of the Curbside Management Tool. This sample project worksheet is a summary of the sample data set provided in GitHub to test run the Curbside Management Tool.

Project profile

This sample project is located in the Bloomfield neighborhood in Pittsburgh, PA, United States. The primary corridor is Liberty Avenue, a two-lane arterial with on-street parking and intermittent bike facilities. Existing curb utilization is primarily vehicles storage, but there is interest in accommodating transit-supportive treatments and passenger loading along this block, especially adjacent to the West Penn Hospital on the north side of Liberty Avenue.

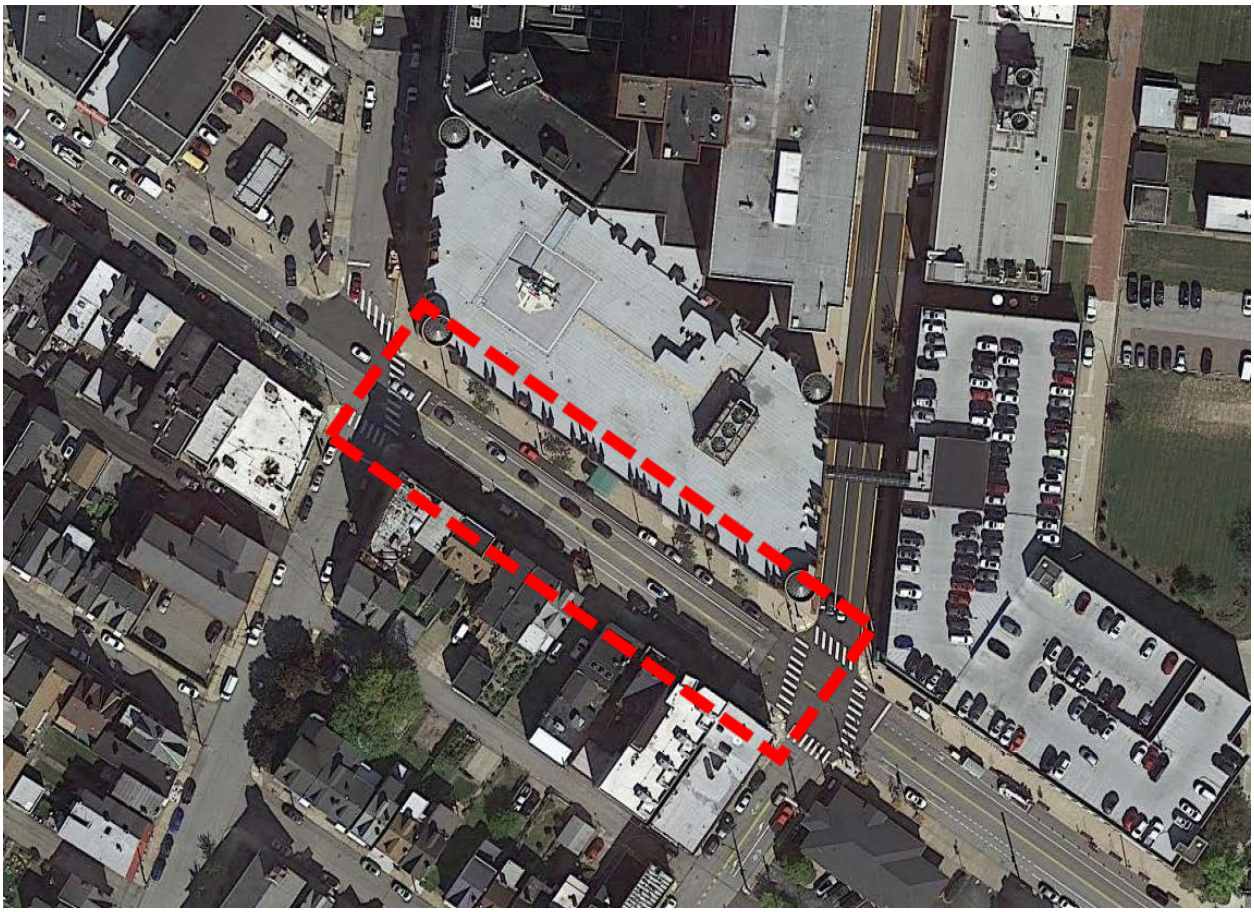

Figure 1: Satellite image of Liberty Ave between S Mathilda St and S Millvale Ave in Pittsburgh, PA. Source: Google Maps

Figure 2: Map showing data visualized in ArcGIS Pro which represents street centerlines and associated current curb regulations as collected during field data collection of Liberty Ave between S Mathilda St and S Millvale Ave in Pittsburgh, PA.

Input Data

The following project inputs were entered into the Curbside Management Tool. Detailed information about each component can be followed in the *Tool User Guide* per the noted pages provided in the table below regarding the respective Tool Component.

Tool Component	Input Data	Source	Notes
0 – Get SharedStreets Features *See **Pages 15-18 f**or more information.*	Polygon around Bloomfield neighborhood	Hand-drawn in ArcGIS Pro	ArcGIS Collector used for Centerline and Curb assets/ classifications.
1 – Convert CurbLR to Feature Class *See **pages 19-24** for more information.*	None – no preexisting CurbLR data for Pittsburgh, PA	N/A	ArcGIS Collector used for Centerline and Curb assets/ classifications.
2 – Prepare LR Correspondence	Centerlines of corridors of interest	Adapted from SharedStreets features	

*See **pages 25-27** for more information.*	Curb regulations	Manually created in ArcGIS Collector	Easily collected in the ArcGIS Collector schema created for this effort.
3 – Generate Curbside Statistics *See **pages 28-29** for more information.*	M-enabled centerlines of corridors of interest	Output from 2 – Prepare LR Correspondence	
	M-enabled curb regulations	Output from 2 – Prepare LR Correspondence	
4 – Curbside Treatment Options *See **pages 30-33** for more information.*	Corridors of interest	Output from 3 – Generate Curbside Statistics, plus manually added right-of-way fields	
	Treatment table	Default treatment table provided with Curbside Management Tool	Output integrated into Dashboard for visualization

Output Results & Curbside Treatment Options

The following treatment options were identified for further consideration based on results from Tool Component 4 the Curbside Management Tool. The treatment options are identified by name and ID and are referenceable in the Treatment Priority Lookup. The measures of effectiveness seen in the Treatment Priority Lookup can be referenced in the User Guide on **pages- 54-56**. The demonstration project treatment options of collectively improving bike facilities, widening sidewalks, and improving transit stops align with the project goals.

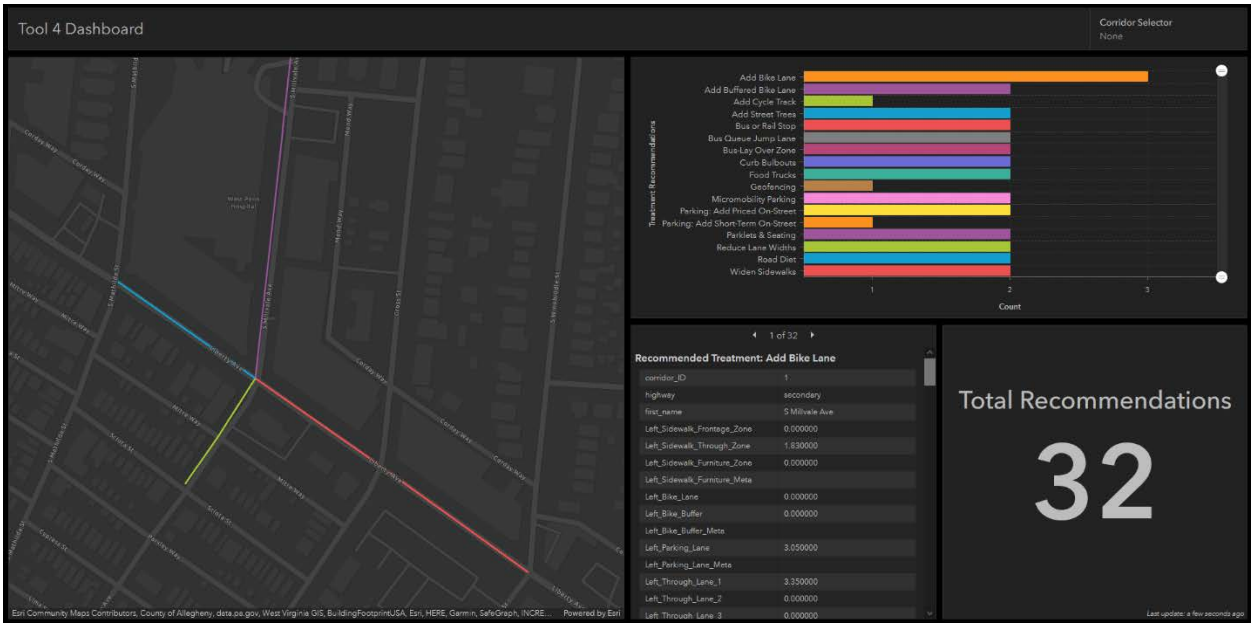

Figure 33: GIS results from Tool Component 4 of treatment options for Liberty Ave between S Mathilda St and S Millvale Ave in Pittsburgh, PA.

Figure 4: Weighted results from Tool Component 4 of treatment options for Liberty Ave between S Mathilda St and S Millvale Ave in Pittsburgh, PA.

The weighted results above reflect the curbside treatment options as an output from component 4, the following categories are shown in the chart:

- Add Bike Lane
- Add Buffered Bike Lane
- Add Cycle Track
- Add Street Trees
- Bus or Rail Stop
- Bus Queue Jump Lane
- Bus-Lay Over Zone
- Curb Bulbouts
- Food Trucks
- Geofencing
- Micromobility Parking
- Parking: Add Priced On-Street
- Parking: Add Short-Term On-Street
- Parklets & Seating
- Reduce Lane Widths
- Road Diet
- Widen Sidewalks