

APPENDIX A. CONNECTIVITY TOOLBOX USER GUIDE

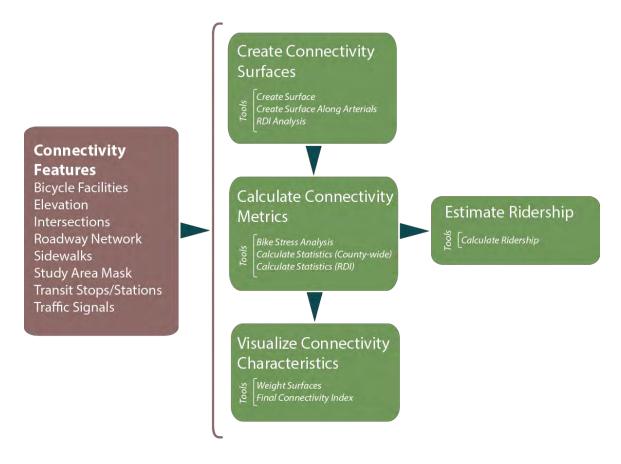
INTRODUCTION

The Connectivity Analysis Toolbox is a suite of custom planning tools created to help King County Metro (KC) and Sound Transit (ST) analyze the relationships between connectivity, non-motorized access to transit, and ridership. The tools are designed for use in the ArcMap environment using the following inputs: 1) existing conditions transportation network data developed by Fehr & Peers containing data collected from multiple jurisdictions and agencies, and 2) new/updated transportation network data developed by KC and ST²⁰. The Connectivity Analysis Toolbox is intended for use by analysts with advanced GIS knowledge to assess existing and future connectivity conditions and to better understand how changes in connectivity may affect transit ridership. The flow chart below outlines the Connectivity Analysis workflow and associated tools.

_

²⁰ The final section of this document provides guidance about developing and updating new transportation network data. The companion report on the Non-Motorized Access Study describes the process that Fehr & Peers used to obtain and prepare the transportation network data as well.





This User Guide is an introductory manual for the Connectivity Toolbox, and includes descriptions of Connectivity Tools with examples of tool inputs and results. An accompanying geodatabase containing sample GIS data is included with this document. Fehr & Peers provides this sample data for use in tutorials as well as gaining familiarity with the toolbox prior to running a full analysis. A more extensive countywide database reflecting with the most current data applied in the connectivity analysis is also included. The following sections describe the tools included in the Connectivity Toolbox and the sample data provided.

ABOUT THE CONNECTIVITY TOOLBOX

The Connectivity Toolbox contains nine tools for calculating connectivity metrics. The tools were built using ArcGIS and the Python programming language. The tools included are designed to 1) produce connectivity "surfaces" that graphically represent the non-motorized connectivity metrics utilized in the King County Non-Motorized Access to



Transit study, 2) calculate metrics for use in regression analysis, 3) visualize connectivity characteristics, and 4) estimate potential changes in ridership.

The surface creation tools include "Create Surface", "Create Surface Along Arterials", "Bike Stress Analysis", and "RDI Analysis". Surface outputs from these tools contain connectivity scores ranging from 1 (low connectivity) to 5 (high connectivity). Surfaces are "masked" using a polygon feature class that represents those areas to be included in the analysis. Please refer to the project report for more information on the role of the mask layer in the connectivity analysis.

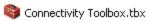
Connectivity surfaces are weighted to incorporate regression coefficients using the "Weight Surface" tool. The output-weighted surfaces are used as inputs to the "Final Connectivity Index" tool, which creates a composite connectivity index for each study location analyzed. In addition to the surface tools, the Connectivity Toolbox includes tools to calculate metrics for the areas surrounding study locations.

- The "Calculate Statistics (Countywide)" tool produces statistics for each study feature (e.g., transit stop location) using surfaces that represent connectivity at the countywide scale (for example, sidewalks and intersections).
- The "Calculate Statistics (RDI)" tool generates statistics for each study feature using surfaces that represent connectivity at the study-feature scale.
- Along with bike stress surfaces, the "Bike Stress Analysis" tool also produces bike stress statistics at the study-feature scale.
- The "Calculate Ridership" tool can be used to estimate ridership based on weighted connectivity scores for existing and future conditions.

The screen capture below shows the Connectivity Toolbox and associated tools as viewed in ArcGIS Desktop.



CONNECTIVITY TOOLBOX



3 1. Create Surface

🐧 2. Create Surface Along Arterials

🥞 3. Bike Stress Analysis

3 4. RDI Analysis

🐧 5. Calculate Statistics (County-wide)

💲 6. Calculate Statistics (RDI)

3 7. Calculate Ridership

🐧 8. Weight Surfaces

💲 9. Final Connectivity Index



ABOUT THE SAMPLE DATA

The screen capture below shows the file geodatabase containing a sample dataset prepared for the King County Connectivity Toolbox training session. The geodatabase contains network datasets and feature classes representing key non-motorized infrastructure/built environment features that are correlated with transit usage, such as sidewalks, intersections, and traffic signals. For more information on the relationships between these feature classes and transit usage, as well as an account of data collected for this project, please refer to the project report.

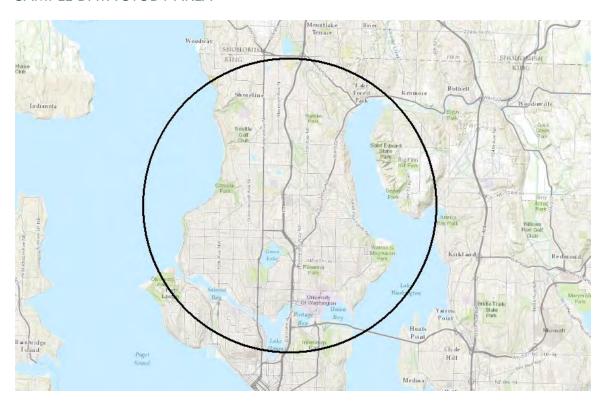
FILE GEODATABASE SHOWING SAMPLE DATA

- 🗉 🔰 KingCountyData.gdb
 - ☐ 🖶 ArterialsNetwork
 - ## ArterialsNetwork_ND
 - ∴ ArterialsNetwork ND Junctions
 - 🔁 ArterialsWalkBikeNetwork
 - □ 🖶 ConstrainedNetwork
 - # ConstrainedNetwork_ND
 - ConstrainedNetwork_ND_Junctions
 - ConstrainedWalkBikeNetwork
 - □ □ FullNetwork
 - 描 FullNetwork_ND
 - FullNetwork_ND_Junctions
 - FullWalkBikeNetwork
 - acs_11_5yr_pop_dens
 - Sample 15MinBikesheds
 - Sample 15MinBikesheds_Euclidean
 - Sample 15MinWalksheds
 - Sample 15MinWalksheds_Euclidean
 - SampleIntersections
 - SampleMask
 - ── SampleSidewalks
 - SampleSignals
 ■
 - SampleStation



The sample data represents three transit stations in the Northgate area and non-motorized infrastructure/built environment features in a 5-mile vicinity. Below is a map showing the study area covered by the sample data.

SAMPLE DATA STUDY AREA





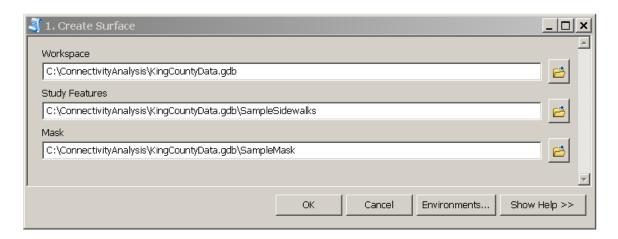
WORKING WITH THE CONNECTIVITY TOOLBOX

CREATE SURFACE

Summary:

The Create Surface tool creates a scored raster surface for a user-defined feature class. Raster cells are assigned a score based on proximity to study features. For example, if the user provides a feature class representing sidewalks, the raster cells closest to the sidewalk will be assigned the highest score. The score for raster cells will decrease with distance from the input features (e.g., sidewalks). Surfaces created from this tool are intended to visualize feature coverage and to be used as input to the Calculate Statistics (Countywide) and Final Connectivity Index tools. Fehr & Peers applied this tool as part of the King County Non-Motorized Connectivity Study using feature classes representing sidewalks and intersections, two factors known to contribute improved non-motorized access in an area. For more information on the research regarding sidewalks and intersections as they relate to access and transit ridership, as well as the role of sidewalk and intersection metrics in the connectivity study please refer to the project report. This tool can also be used to produce surfaces for other feature classes as the discretion of the analyst (e.g., distance from transit stops).

This tool requires the Spatial Analyst extension.





Parameters:

- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Study Features
 - Enter a point or line feature class. A scored surface (raster) will be created for this feature class.
- Mask
 - Enter a polygon feature class representing the study area and omitting regions not to be included in the analysis (ex: water features, parks, cemeteries).

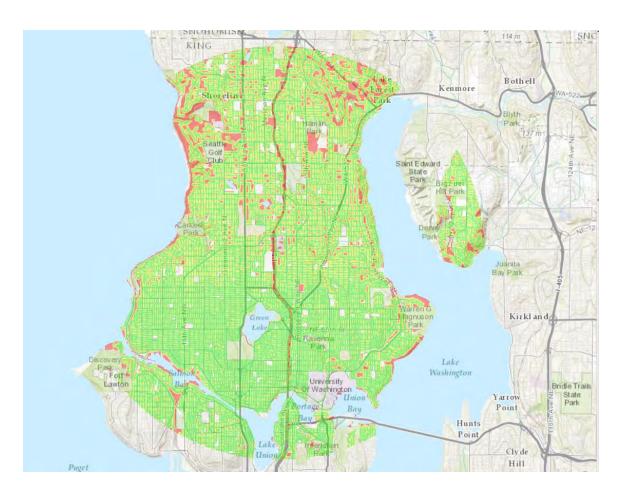
Results:

The Create Surface tool produces a raster surface showing the connectivity score for the study features, with 1 being the lowest score (coverage farthest from the study features) and 5 being the highest score (coverage closest to the study features). The screen capture below shows a sidewalk/walkway²¹ score surface in the sample data study area. The highest score is shown in green, and the lowest in red.

Appendix A – Connectivity Toolbox User Guide

²¹ As described in the full report, local streets that lack sidewalks are still defined as being "good" walking routes to transit stops. Therefore, there is not a gap in sidewalk and walkway coverage shown north of 85th Street.





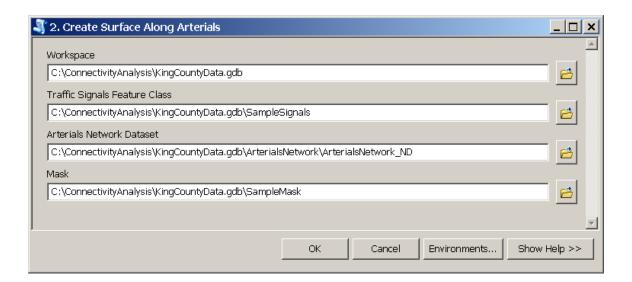
CREATE SURFACE ALONG ARTERIALS

Summary:

The Create Surface Along Arterials tool produces a scored surface for a user-defined traffic signals feature class. The scores are assigned relative to locations along a network. The input network should be a subset of the full network containing only arterial network features. Surfaces created from this tool are intended to visualize feature coverage along a roadway network representing only arterials and to be used as input to the Calculate Statistics (Countywide) and Final Connectivity Index tools.

This tool requires the Network Analyst, 3D Analyst, and Spatial Analyst extensions.





Parameters:

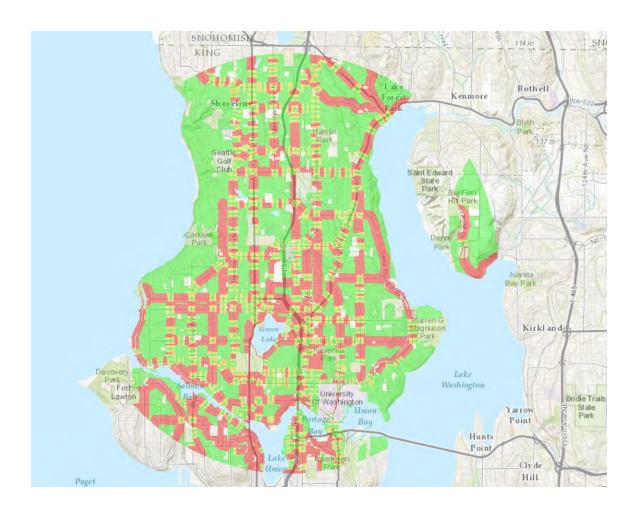
- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Traffic Signals Feature Class
 - Enter a point feature class representing traffic signals. A scored surface will be created for this feature class.
- Arterials Network Dataset
 - Enter a network dataset that represents the network features along which the Traffic Signals Feature Class will be assessed. For example, if analyzing traffic signals only along arterial roadways, enter a network dataset containing only arterials.
- Mask
 - Enter a polygon feature class representing the study area and omitting regions not to be included in the analysis (ex: water features, parks, cemeteries).

Results:

The Create Surface along Arterials tool produces a raster surface showing the connectivity score for the traffic signal features, with 1 being the lowest score (coverage farthest from the study features) and 4 being the highest score (coverage closest to the



study features). The screen capture below shows a traffic signals score surface in the sample data study area. The highest score is shown in green, and the lowest in red.





BIKE STRESS ANALYSIS

Summary:

The Bike Stress Analysis tool compares full-network and constrained-network (limited to low-stress facilities only) routes to study locations from eight starting points surrounding each location²². The eight starting points are established one-mile from each location in the eight cardinal (N/S/E/W) and intermediate (NE/SE/NW/SW) directions. Once the route comparisons are completed, each study location is assigned a bike stress score based on the ratio of the full-length to constrained-length routes. Bike stress raster surfaces are created to visualize the results in a three-mile radius surrounding each study location.

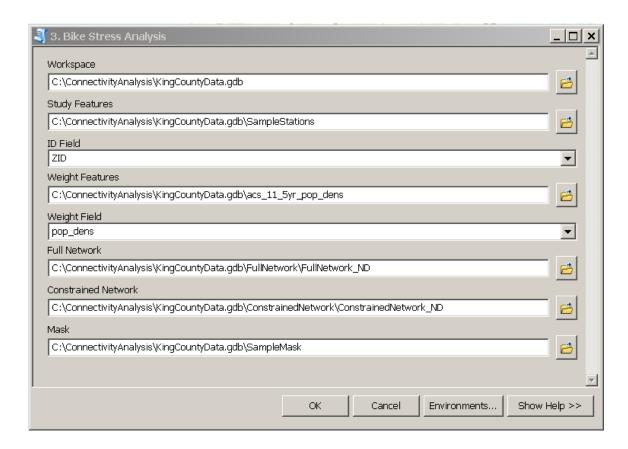
The Bike Stress Analysis tool receives study features from the user as well as data used to weight the output bike stress scores for each study location. As part of the Non-Motorized Connectivity Study, scores are weighted using population density values derived from the American Community Survey. The user also provides full and constrained network datasets (prepared prior to running the tool). The outputs of the tool include a point feature class containing the eight cardinal location points surrounding each station, a summary table with the weighted bike stress score for each study feature, and bike stress raster surfaces for a three-mile area around each study feature.

This tool requires the Network Analyst and Spatial Analyst extensions.

-

The full report describes the research and methodology behind bike stress. Full and constrained networks are also defined in the full report.





Parameters:

- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Study Features
 - Enter a point feature class (ex: station locations). Bike stress will be calculated for each feature in the input Study Features feature class. The feature class must have a field containing a unique identifier for each point feature.
- ID Field
 - Select the ID field from the about Study Features feature class that contains a unique identifier for each point feature.
- Weight Features
 - Enter a polygon feature class containing data that will be used to weight the final bike stress score applied to each input study feature (ex: population density).
- Weight Field



 Select the field from the above Weight Features feature class that contains the values used to weight the final bike stress score.

• Full Network

 Enter a network dataset that represents the full study area network. The routes along this network will be compared with those of the constrained network.

• Constrained Network

 Enter a network dataset that represents the constrained study area network. The routes along this network will be compared with those of the full network.

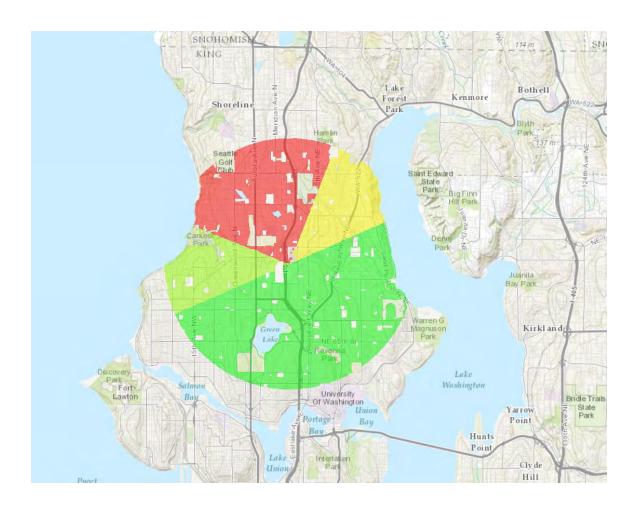
Mask

 Enter a polygon feature class representing the study area and omitting regions not to be included in the analysis (ex: water features, parks, cemeteries).



Results:

The Bike Stress Analysis tool produces a summary table of bike stress results by station and one raster surface per station visualizing the bike stress index within a three-mile radius surrounding each station. The surface is created through an interpolation process using the eight cardinal locations surrounding each station. The screen capture below shows bike stress analysis results for one sample station (ZID = 261). The lowest score is represented by a value of 1 (shown in red), and the highest score is represented by a value of 5 (shown in green).





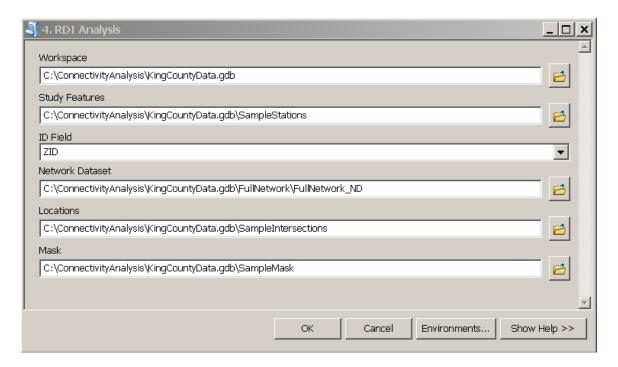
RDI ANALYSIS

Summary:

The RDI Analysis tool produces a unique surface for each record in a point-based feature class. RDI or "Route Directness" is a metric that describes the relationship between distance traveled along a network and the respective "as the crow flies" distance. Typically the distance traveled along a network between two locations is greater than the direct, "as the crow flies" distance between the same two points. The closer these two distance measurements are between a given set of locations, the higher the RDI score. Circuitous paths based on a minimum-cost solution will increase the difference between the two distance measurements and lower the RDI score. This tool uses a set of origin points (transit stop locations) and destination points (intersections) to create a surface that reflects the Route Directness for all destinations within a three-mile radius around each origin. Although transit stop locations and intersections are used as the origin and destination locations as part of the Non-Motorized connectivity study, any set of point locations can be used as inputs to the tool.

This tool requires the Network Analyst and Spatial Analyst extensions.





Parameters:

- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Study Features
 - Enter a point feature class (ex: station locations). An RDI surface will be created for this feature class.
- ID Field
 - Select the ID field from the about Study Features feature class that contains a unique identifier for each point feature.
- Network Dataset
 - Enter a network dataset that represents the network features along which the Study Features feature class will be assessed for Route Directness.
- Locations
 - Enter a point feature class that represents locations to/from which people might be traveling to the study features (ex: intersections). Route
 Directness will be assessed between each of these locations and nearby
 Study Features.
- Mask

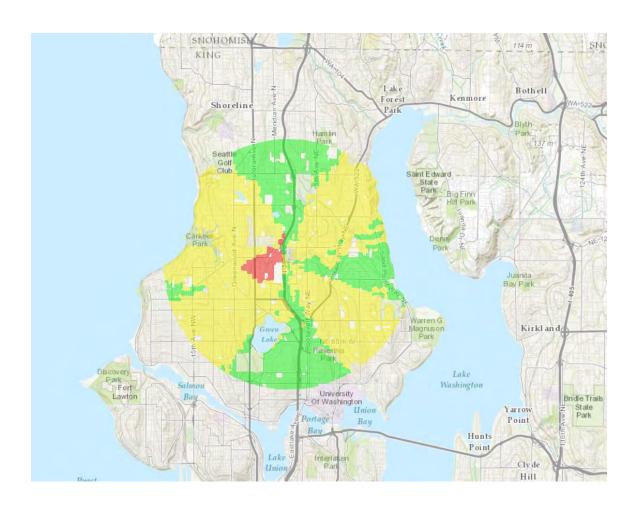


 Enter a polygon feature class representing the study area and omitting regions not to be included in the analysis (ex: water features, parks, cemeteries).



Results:

The RDI Analysis tool produces one raster surface per station visualizing the route directness in a three-mile radius surrounding each station. The surface is produced through a spatial interpolation process using the RDI scores of the input locations surrounding each station. The screen capture below shows RDI analysis results for one sample station (ZID = 261). The lowest score is represented by a value of 1 (shown in red), and the highest score is represented by a value of 5 (shown in green).





CALCULATE STATISTICS (COUNTY-WIDE)

Summary:

The Calculate Statistics (Countywide) tool uses ArcGIS Zonal Statistics to summarize surfaces created using the Create Surface tool. The results can be examined in tabular format and applied in analyses such as linear regression. The Zonal Statistics geoprocessing tool in ArcGIS uses the Spatial Analyst extension. It calculates statistics on values of a raster within the zones of another dataset. The statistics types are described in the list below. The Calculate Statistics tool calculates zonal statistics for each zone record in a feature class or a list of feature classes. It can be used to produce connectivity surface summary values for each station. The zones being analyzed may include bike sheds and walk sheds surrounding each KCM transit station.

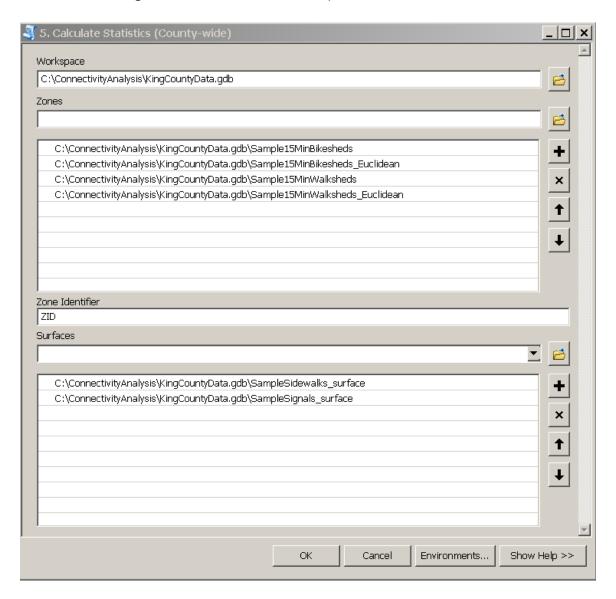
This tool requires the Spatial Analyst extension.

Zonal Statistics Calculated by ArcGIS:

- MEAN Calculates the average of all cells in the value raster that belong to the same zone as the output cell.
- MAJORITY Determines the value that occurs most often of all cells in the value raster that belong to the same zone as the output cell.
- MAXIMUM Determines the largest value of all cells in the value raster that belong to the same zone as the output cell.
- MEDIAN Determines the median value of all cells in the value raster that belong to the same zone as the output cell.
- MINIMUM Determines the smallest value of all cells in the value raster that belong to the same zone as the output cell.
- MINORITY Determines the value that occurs least often of all cells in the value raster that belong to the same zone as the output cell.
- RANGE Calculates the difference between the largest and smallest value of all cells in the value raster that belong to the same zone as the output cell.
- STD Calculates the standard deviation of all cells in the value raster that belong to the same zone as the output cell.
- SUM Calculates the total value of all cells in the value raster that belong to the same zone as the output cell.



• VARIETY — Calculates the number of unique values for all cells in the value raster that belong to the same zone as the output cell.



Parameters:

- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Zones
 - Enter the polygon feature classes representing statistical zones, such as walk shed and bike shed feature classes.
- Zone Identifier



o Enter the name of the ID field that contains the unique identifier common to all zone geographies.

Surfaces

 Enter the countywide surfaces (rasters) for which statistics will be calculated within the input zone geographies.

Results:

The Calculate Statistics (Countywide) tool produces statistics tables for each zone type for each surface. The example result table below show sidewalks statistics for the three sample stations (ZIDs 86, 261, and 348) within the 15-minute Euclidean (as-the-crow-flies) bike sheds surrounding each station.

| ZS_Sample15MinBikesheds_Euclidean_SampleSidewalks_surface | | | | | | | | | | | | | | |
|---|------------|-----|--------|-----------|-----|-----|-------|---------|---------|---------|---------|----------|----------|--------|
| | OBJECTID * | ZID | COUNT | AREA | MIN | MAX | RANGE | MEAN | STD | SUM | VARIETY | MAJORITY | MINORITY | MEDIAN |
| | 1 | 86 | 688867 | 619980000 | 1 | 5 | 4 | 4.14638 | 1.03975 | 2856310 | 5 | 5 | 2 | 4 |
| | 2 | 261 | 708529 | 637676000 | 1 | 5 | 4 | 4.11126 | 1.05975 | 2912950 | 5 | 5 | 2 | 4 |
| П | 3 | 348 | 706998 | 636298000 | 1 | 5 | 4 | 4.08018 | 1.08188 | 2884680 | 5 | 5 | 2 | 4 |



CALCULATE STATISTICS (RDI)

Summary:

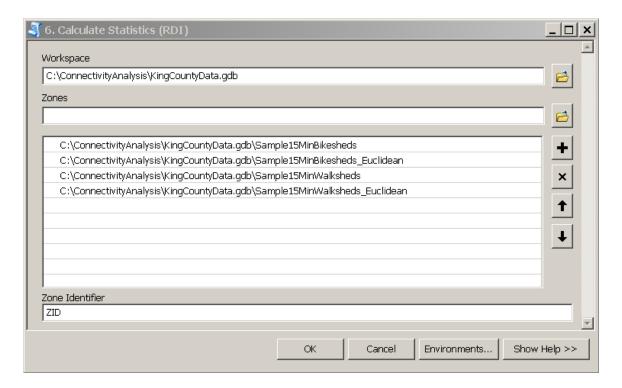
The Calculate Statistics (RDI) tool uses ArcGIS Zonal Statistics to summarize surfaces created using the station-based RDI surface tool (RDI Analysis). In other words, this tool generates a numerical summary of the RDI raster values. The results can be examined in tabular format and applied in analyses such as linear regression where the average RDI of a transit stop area is of interest.

The Zonal Statistics geoprocessing tool in ArcGIS uses the Spatial Analyst extension. It calculates statistics on values of a raster within user defined "zones". The statistics types (mean, maximum, median, etc.) are described in the Calculate Statistics (Countywide) tool description above. Because the Create RDI Surfaces tool produces individual feature-by-feature surfaces, the process of summarizing the surfaces is different than the Calculate Statistics (Countywide tool). This is due to each station zone having a unique RDI surface²³. As the tool iterates through each zone record, it selects the appropriate RDI surface for that zone and calls for the execution of the Zonal Statistics geoprocessing tool. It can be used to produce RDI surface summary values for each station. The zones being analyzed may include bike sheds and walk sheds surrounding a transit stations dataset.

This tool requires the Spatial Analyst extension.

²³ In other words, the RDI value of a location will vary based on which transit stop is being analyzed. In the Northgate example, a particular raster cell could have a poor RDI score to access the Northgate Transit Center and a relatively good RDI score to access a RapidRide stop on Aurora Avenue. In contrast the arterial crossing score of a location does not vary based on the transit stop being analyzed.





Parameters:

- Workspace
 - Enter the file geodatabase (.gdb) to which output data will be written. The workspace must contain RDI surfaces created using the RDI Analysis Tool.
- Zones
 - Enter the polygon feature classes representing "zones" over which to calculate the RDI statistics. These zones can be any shape/size, the example above specifies a variety of walk shed and bike shed polygons.
- Zone Identifier
 - Enter the name of the ID field that contains the unique identifier common to all zone geographies.



Results:

The Calculate Statistics (RDI) tool produces statistics tables for each zone. The example result table below shows RDI statistics for the three sample stations (ZIDs 86, 261, and 348) within the 15-minute bike sheds (zone) surrounding each station.

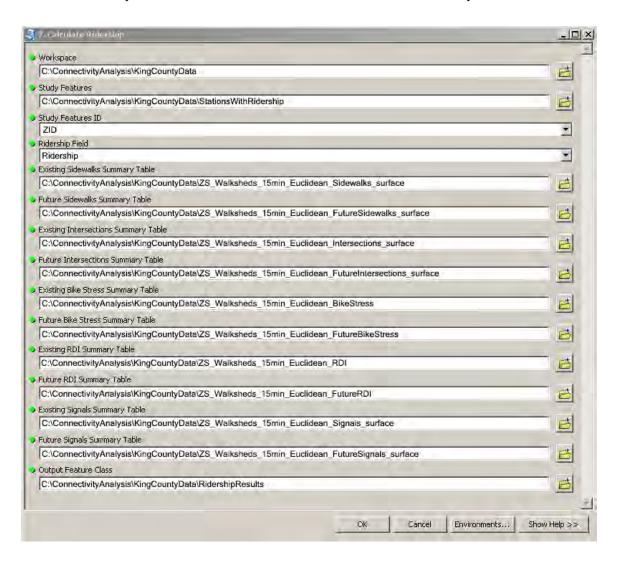
| Z | ZS_Sample15MinBikesheds_RDI | | | | | | | | | | | | | | |
|---|-----------------------------|------------|-----|-------|----------|-----|-----|-------|---------|----------|--------|---------|----------|----------|--------|
| | | OBJECTID * | ZID | COUNT | AREA | MIN | MAX | RANGE | MEAN | STD | SUM | VARIETY | MAJORITY | MINORITY | MEDIAN |
| | H | 1 | 261 | 28472 | 25624800 | 2 | 5 | 3 | 4.26472 | 0.602801 | 121425 | 4 | 4 | 2 | 4 |
| | | 2 | 348 | 40642 | 36577800 | 2 | 5 | 3 | 4.35417 | 0.698514 | 176962 | 4 | 4 | 2 | 4 |
| I | | 3 | 86 | 68411 | 61569900 | 4 | 5 | 1 | 4.42239 | 0.49394 | 302540 | 2 | 4 | 5 | 4 |



CALCULATE RIDERSHIP

Summary:

The Calculate Ridership tool uses ridership and connectivity variables for existing and future conditions to calculate change in ridership for a set of Study Features defined by the user. This tool works with file geodatabase tables produced using the Calculate Statistics (Countywide), Calculate Statistics (RDI), and Bike Stress Analysis tools.





Parameters:

- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Study Features
 - Enter a point feature class (ex: station locations). Bike stress will be calculated for each feature in the input Study Features feature class. The feature class must have a field containing a unique identifier for each point feature.
- Study Features ID
 - Select the ID field from the Study Features feature class that contains a unique identifier for each point feature.
- Ridership Field
 - Select the field from the Study Features feature class that contains ridership values for each study feature.
- Existing Sidewalks Summary Table
 - Enter a file geodatabase table with sidewalk summary results (existing conditions) from the Calculate Statistics (Countywide) tool. The "MEAN" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.
- Future Sidewalks Summary Table
 - Enter a file geodatabase table with sidewalk summary results (future conditions) from the Calculate Statistics (Countywide) tool. The "MEAN" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.
- Existing Intersections Summary Table
 - Enter a file geodatabase table with intersection summary results (existing conditions) from the Calculate Statistics (Countywide) tool. The "MEAN" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.
- Future Intersections Summary Table
 - Enter a file geodatabase table with intersection summary results (future conditions) from the Calculate Statistics (Countywide) tool. The "MEAN"



field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.

• Existing Bike Stress Summary Table

o Enter a file geodatabase table with bike stress summary results (existing conditions) from the Bike Stress Analysis tool. The "avg_ratio" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.

Future Bike Stress Summary Table

Enter a file geodatabase table with bike stress summary results (future conditions) from the Bike Stress Analysis tool. The "avg_ratio" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.

Existing RDI Summary Table

Enter a file geodatabase table with bike stress summary results (existing conditions) from the Calculate Statistics (RDI) tool. The "MEAN" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.

• Future RDI Summary Table

 Enter a file geodatabase table with bike stress summary results (future conditions) from the Calculate Statistics (RDI) tool. The "MEAN" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.

Existing Signals Summary Table

 Enter a file geodatabase table with signal summary results (existing conditions) from the Calculate Statistics (Countywide) tool. The "MEAN" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.

Future Signals Summary Table

 Enter a file geodatabase table with signal summary results (future conditions) from the Calculate Statistics (Countywide) tool. The "MEAN" field from this table will be used in conjunction with other tables to calculate change in ridership for each study feature in the Study Features feature class.

Output Feature Class Name



 Enter the name and location of the output file to be created. The output produced is a point feature class containing connectivity variables and change in ridership for each study feature.

Results:

The Calculate Ridership tool produces an output point feature class containing ridership and connectivity variables as well as change in ridership. As described in the full report, the ridership outputs are one of the key products of the Connectivity Toolbox. Ridership is used to evaluate and prioritize potential non-motorized improvement projects.

WEIGHT SURFACES

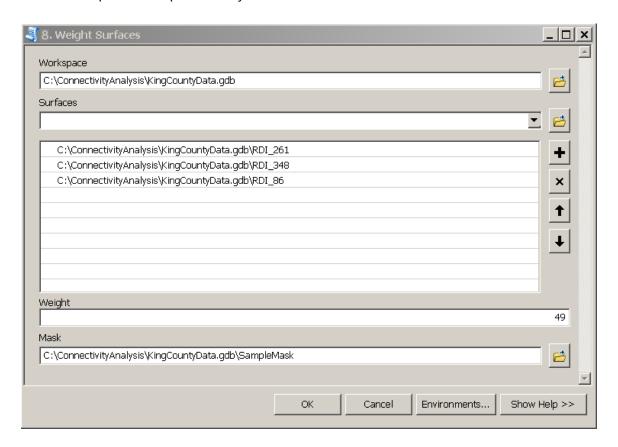
Summary:

The Weight Surface tool weights raster cells of an input surface according to a user-defined input weight. Surfaces weighted using this tool can be used as inputs to the Final Connectivity Index tool. The Weighted Surfaces and the Final Connectivity Index are intended for spatial representation and visualization. Statistics applied in the Calculate Ridership tool are weighted separately according to model findings. For consistency between model results and visualizations, it is recommended that the weight percentages derived from the model be applied in the Weight Surfaces tool. The table below shows the weight percentages applied for each surface in the Non-Motorized Connectivity Study. Refer to the project report for more information on the model results and weight percentages.

| | Coefficient | Weight Percentage |
|-----------------------------|-------------|-------------------|
| RDI | 0.860 | 36% |
| Bike Stress | 0.145 | 6% |
| Sidewalk/Walkway Density | 0.669 | 14% |
| Intersection Density | 0.393 | 8% |
| Signalized Crossing | 0.878 | 36% |



This tool requires the Spatial Analyst extension.



Parameters:

- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Surfaces
 - Enter station-based or countywide raster surfaces produced using the RDI Analysis, Bike Stress Analysis, Create Surface, or Create Surface along Network tools. All surfaces entered will be weighted according to the weight value specified in the next field.
- Weight
 - Enter a whole-number weight value. This value will be multiplied by input surface raster cell values to produce weighted surfaces.
- Mask



 Enter a polygon feature class representing the study area and omitting regions not to be included in the analysis (ex: water features, parks, cemeteries).



Results:

The Weight Surface tool produces weighted versions of input surfaces. The screen capture below shows the sample RDI surfaces as viewed in the Catalog window of ArcMap with their weighted equivalents (weighted by the weight percentage for RDI, which is 36).

RDI_261 ## RDI_261_weighted_36 ## RDI_348 ## RDI_348_weighted_36 ## RDI_86 ## RDI_86_weighted_36

Appendix A – Connectivity Toolbox User Guide



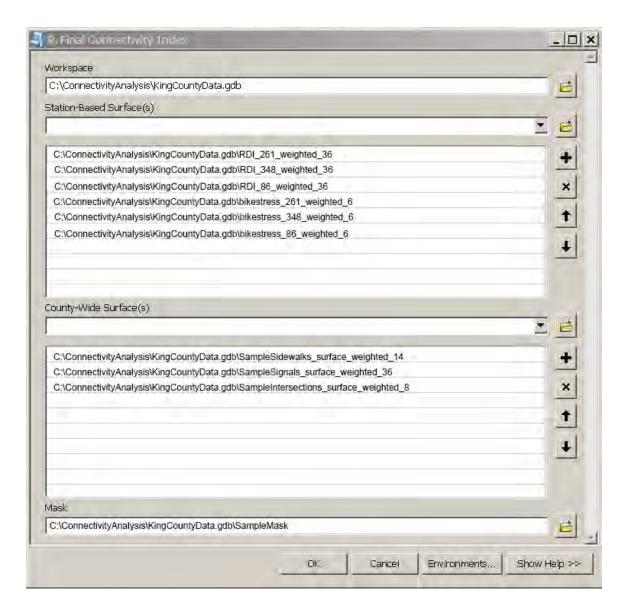
FINAL CONNECTIVITY INDEX

Summary:

The Final Connectivity Index tool creates a composite scored surface using either the results from previous surface tools and/or new surfaces created from additional study layers. The Final Connectivity Index tool overlays component surfaces and assigns a composite score for each output raster cell. The output surface is a visual summary of connectivity based on features identified by the user as contributing to the connectivity of a region.

This tool requires the Spatial Analyst extension.





Parameters:

- Workspace
 - o Enter the file geodatabase (.gdb) to which output data will be written.
- Station-Based Surface(s)
 - Enter station-based raster surfaces produced using the RDI Analysis or Bike Stress Analysis tools (or corresponding raster surfaces weighted using the Weight Surfaces tool). These surfaces must follow the naming convention SurfaceName_SurfaceID (ex: RDI_244), or for weighted surfaces, SurfaceName_SurfaceID_Weight (ex: RDI_244_5).



• County-Wide Surface(s)

 Enter countywide raster surfaces produced using the Create Surface and Create Surface Along Network tools (or corresponding raster surfaces weighted using the Weight Surfaces tool).

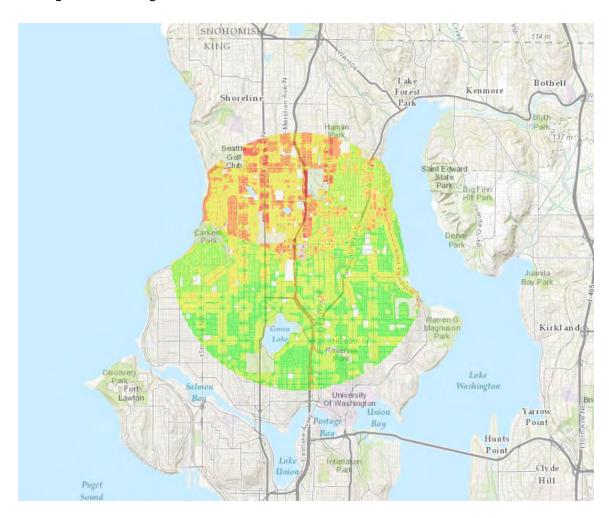
Mask

 Enter a polygon feature class representing the study area and omitting regions not to be included in the analysis (ex: water features, parks, cemeteries).



Results:

The Final Connectivity Index tool produces station-based raster composites of individual input surfaces. The screen capture below shows the final composite index for one sample station (ZID = 261). The final scores depend on the scores of input surfaces and weighting where applied. In the example below, the lowest score is visualized in red and the highest score in green.





TRAVEL SHED DEVELOPMENT

A travel shed is a defined region surrounding a point or points of interest. This region typically describes a travel area from the points of interest outward or inward toward the points of interest. In addition to the development of the Connectivity Toolbox, a workflow was established to delineate travel sheds within the vicinity of each station included in the Non-Motorized Connectivity Analysis. Four travel sheds estimating 15-minute travel to and from King County transit stops were applied: network walk shed, network bike shed, Euclidean (as-the-crow-flies) walk shed and Euclidean bike shed. This section describes both types of travel sheds, as well as the travel shed development process performed in ArcMap.

Euclidean Travel Sheds

Euclidean travel sheds are defined according to a straight-line, as-the-crow-flies, distance in all directions from points of interest. The Kind County Non-Motorized Connectivity analysis used Euclidean walk sheds (3,150 feet) and Euclidean bike sheds (3 miles) to summarize travel characteristics in the areas around each station. Below is an image showing a sample Euclidean bike shed.





Network Travel Sheds

Network travel sheds represent catchment areas along roadway features in all directions from points of interest. Network walk sheds were defined for 3,150 feet along the roadway network surrounding each station studied in the Non-Motorized Connectivity Analysis. To take into account the effects of terrain on bicycle travel in this region, an energy cost was applied to the roadway network, and a threshold of 500,000 Joules²⁴ was used to define network bike sheds. The image below is an example of a network bike shed surrounding a station.



Travel shed Creation Processing Steps

The steps below describe the ArcGIS process used to define the network and Euclidean walk sheds and bike sheds. This process requires a roadway network, elevation data, and a point feature class representing station locations.

1. Add the King County network feature class in ArcMap.

²⁴ 500,000 Joules is roughly the amount of energy an average-sized cyclist will consume when biking for 15-minutes on level terrain.



- 2. Add the station locations around which travel sheds are to be calculated in ArcMap.
- Add elevation dataset that will be used to reference elevation information for network features in ArcMap. Acceptable input elevation data types include LAS Dataset Layer, Raster Layer, Terrain Layer, and TIN Layer.
- 4. Use the buffer tool to create the following travel sheds around station points:
 - 3,150 foot Euclidean Walk shed
 - 3 mile Euclidean Bike shed
- 5. Add elevation data to network lines feature class using the "Add Surface Information" tool in ArcMap.
- 6. Calculate watts for each network feature.
 - ((9.8 * 90) * 4.5) * (.0053 + (Average Slope/100)) + ((.185 * (4.5^2)) *4.5)
- 7. Calculate joules for each network feature.
 - ((Length *.3048)/4.5)* Watts
- 8. Create King County network dataset in ArcGIS using Network Analyst extension with length and joules as costs.
- 9. Use Service Area tools in Network Analyst to create the following travel sheds around station points:
 - 15-minute Network Walk Shed (3,150 foot cutoff)
 - 15-minute Network Bike Shed (50,000²⁵ cutoff)

_

²⁵ Note that 500,000 joules is energy budget, but the tool uses a factor of 10 in the calculation. Thus use 50,000 for the travel shed cut-off



RECOMMENDED PRACTICES

Recommendations for geospatial data management best practices when working with the Connectivity Toolbox and associated data:

Data Format

Geodatabase feature classes are recommended for stability, data organization, and storage of large datasets.

Spatial Reference

The Spatial Reference settings below are recommended for all data used as inputs to the Connectivity Tools:

NAD_1983_StatePlane_Washington_North_FIPS_4601_Feet

WKID: 2285 Authority: EPSG

Projection: Lambert_Conformal_Conic False_Easting: 1640416.666666667

False Northing: 0.0

Central_Meridian: -120.83333333333333

Standard Parallel 1: 47.5

Standard Parallel 2: 48.73333333333333

Latitude_Of_Origin: 47.0

Linear Unit: Foot US (0.3048006096012192)

Geographic Coordinate System: GCS_North_American_1983

Angular Unit: Degree (0.0174532925199433)

Prime Meridian: Greenwich (0.0) Datum: D North American 1983

Spheroid: GRS_1980

Semimajor Axis: 6378137.0

Semiminor Axis: 6356752.314140356 Inverse Flattening: 298.257222101

Repeating Analyses

If repeating an analysis using modified or new data, it is recommended that users create a new geodatabase containing relevant data that can also be used to store analysis outputs. This will aid in the organization and maintenance of analysis results.



Editing Datasets

Below are suggested practices when editing or adding new features to existing datasets:

- If adding point data (for example, intersections or traffic signals) along roadway features, snapping is recommended.
- When adding new features to a network dataset, using the Planarize Lines editing tool is recommended before rebuilding the network (visit this link to learn more about planarization: http://resources.arcgis.com/en/help/main/10.1/index.html#//01m8000000120000
 00).
- If two datasets are being used for comparison purposes, check for field type compatibility between datasets.
- When updating datasets or working with new datasets, overlay the dataset with the feature class representing the study area mask and adjust the mask if needed.
 Features not contained within the mask will not be included in the analysis.

Viewing the Geoprocessing Workflows in Python

Each tool is comprised of a series of geoprocessing tasks and custom functions defined in the Python programming language. The scripts associated with each tool by right clicking on the tool and selecting "Export Script". Define the script name and location to save the script to file. Once the file is saved, right click on the file name and select "Edit with IDLE".* Each script contains a header with name, purpose, author, version, and modification date information. Script processes are annotated with comments, indicated by the "#" symbol.



```
File Edit Format Run Options Windows Help
#-----
# Name: CalculateRDI.pv
# Purpose: Calculate RDI for set of origins and destinations
# Author: Amy Smith
# Last Modified: 1/16/2014
# Copyright: (c) Fehr & Peers
# ArcGIS Version: 10.1
# Python Version: 2.7
# Import Modules
import os, arcpy
from arcpy.sa import *
arcpy.env.overwriteOutput = True
arcpy.env.qualifiedFieldNames = False
# Function Definitions
def getValueList(inputTable, field):
    values = set()
    rows = arcpy.SearchCursor(inputTable)
   for row in rows:
        values.add(row.getValue(field))
    return sorted(values)
def deleteExistingField(layer, field):
    fieldList = arcpy.ListFields(layer, field)
    if len(fieldList) == 1:
        arcpy.DeleteField management(layer, field)
def do analysis(workspace,nd,cutoff,origins,originID,destinations,studyArea):
    try:
        # Check Out Extensions
        if arcpy.CheckExtension("Network") == "Available":
           arcpy.CheckOutExtension("Network")
            arcpy.AddMessage("Network Analyst Extension Checked Out.")
                                                                          Ln: 17 Col: 0
```

* IDLE is a Python development environment automatically installed with ArcGIS Desktop. If not currently installed, the "Edit with IDLE" option will not be available. IDLE can be downloaded from python.org.



RESOURCES

About 3D Analyst:

http://resources.arcgis.com/en/help/main/10.1/index.html#/What is the ArcGIS 3D Analyst_extension/00q8000000wv000000/

About Network Analyst:

http://resources.arcgis.com/en/help/main/10.1/index.html#//00470000001000000

About Spatial Analyst:

http://resources.arcgis.com/en/help/main/10.1/index.html#/What is the ArcGIS Spatial Analyst extension/00590000001000000/

Building Network Datasets:

http://resources.arcgis.com/en/help/main/10.1/index.html#//0047000000w000000

Creating File Geodatabases:

http://resources.arcgis.com/en/help/main/10.1/index.html#//018s0000000m000000

Extracting Elevation Data:

http://resources.arcgis.com/en/help/main/10.1/index.html#//00g900000016000000



APPENDIX B. PROJECT TYPE RANKINGS BY PERCENT CHANGE IN RIDERSHIP

| Stop Location | Area | Project Type | Percent Change in Ridership |
|---------------------------------|-------------|-------------------------------------|-----------------------------------|
| OVERLAKE VILLAGE | Redmond | New Streets | 7.9% |
| INTERNATIONAL BLVD & S 180TH ST | SeaTac | New Streets | 7.2% |
| NORTHGATE TC | Seattle | Off-street trails / Cycletracks* | 6.8% |
| STRANDER BLVD & ANDOVER PARK E | Tukwila | New Streets | 6.4% |
| FEDERAL WAY TC | Federal Way | New Streets | 6.3% |
| INTERNATIONAL BLVD & S 176TH ST | SeaTac | New Streets | 6.2% |
| OVERLAKE VILLAGE | Redmond | Off-street trails / Cycletracks* | 6.1% |
| ANDOVER PARK W & MINKLER BLVD | Tukwila | New Streets | 5.9% |
| ANDOVER PARK W & TRILAND DR | Tukwila | New Streets | 5.7% |
| 156TH AVE NE & NE 31ST ST | Redmond | New Streets | 5.6% |
| MERIDIAN AVE N & N 105TH ST | Seattle | Off-street trails / Cycletracks | 5.6% |
| BOEING ACS & S LONGACRES WAY | Renton | New Streets | 5.3% |
| 156TH AVE NE & NE 28TH ST | Redmond | New Streets | 5.3% |
| NE 8TH ST & 124TH AVE NE | Bellevue | New Streets | 4.9% |
| LYNNWOOD TC | Lynnwood | New Streets | 4.3% |
| REDMOND TC | Redmond | Off-street trails / Cycletracks | 4.3% |
| ANDOVER PARK W & BAKER BLVD | Tukwila | New Streets | 4.2% |
| 156TH AVE NE & NE 31ST ST | Redmond | Off-street trails / Cycletracks | 4.2% |
| WEST VALLEY HWY & STRANDER BLVD | Tukwila | Off-street trails / Cycletracks | 4.1% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|----------------------------|-------------|----------------------------------|-----------------------------------|
| 15TH AVE NW & NW | Seattle | Greenways / Signalized | 4.1% |
| 85TH ST | | Crossings | |
| NE NORTHGATE WAY & | Seattle | Greenways / Signalized | 4.0% |
| ROOSEVELT WAY NE | | Crossings | |
| STRANDER BLVD & | Tukwila | New Streets | 4.0% |
| ANDOVER PARK W | | | |
| ANDOVER PARK W & | Tukwila | Off-street trails / | 3.8% |
| TRILAND DR | | Cycletracks | |
| 156TH AVE NE & NE | Redmond | Off-street trails / | 3.4% |
| 28TH ST | | Cycletracks | |
| S 180TH ST & SPERRY DR | Tukwila | New Streets | 3.4% |
| 15TH AVE NW & NW | Seattle | Greenways / Signalized | 3.4% |
| MARKET ST | | Crossings | |
| 15TH AVE NW & NW | Seattle | Greenways / Signalized | 3.4% |
| LEARY WAY | | Crossings | |
| E THOMAS ST & 16TH | Seattle | Greenways / Signalized | 3.4% |
| AVE E | | Crossings | |
| CALIFORNIA AVE SW & | Seattle | Greenways / Signalized | 3.3% |
| SW FINDLAY ST | | Crossings | |
| TOTEM LAKE TC | Kirkland | New Streets | 3.3% |
| FEDERAL WAY TC | Federal Way | Off-street trails / Cycletracks | 3.2% |
| 15TH AVE W & W | Seattle | Off-street trails / | 3.1% |
| DRAVUS ST | | Cycletracks | |
| 156TH AVE NE & NE | Bellevue | New Streets | 3.1% |
| 24TH ST | | | |
| BEACON HILL STATION | Seattle | Off-street trails / | 3.1% |
| | | Cycletracks | |
| 1ST AVE NE & NE 95TH | Seattle | Greenways / Signalized | 3.1% |
| ST | | Crossings | |
| FAUNTLEROY WAY SW & | Seattle | Greenways / Signalized | 3.0% |
| CALIFORNIA AVE SW | | Crossings | |
| AURORA AVE N & N | Seattle | Off-street trails / | 3.0% |
| NORTHGATE WAY | | Cycletracks | |
| 5TH AVE NE & NE 103RD | Seattle | Greenways / Signalized | 2.9% |
| ST | | Crossings | <u> </u> |
| 15TH AVE E & E ROY ST | Seattle | Greenways / Signalized Crossings | 2.9% |
| E MADISON ST & 17TH AVE | Seattle | Greenways / Signalized Crossings | 2.8% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|---------------------------------|-------------------|-------------------------------------|-----------------------------------|
| PACIFIC HWY S & S 312TH ST | Federal Way | New Streets | 2.7% |
| INTERNATIONAL BLVD & S 200TH ST | SeaTac | Off-street trails / Cycletracks | 2.6% |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Off-street trails / Cycletracks | 2.6% |
| SODO BUSWAY & S LANDER ST | Seattle | Off-street trails / Cycletracks | 2.6% |
| 5TH AVE NE & NE 106TH ST | Seattle | Greenways / Signalized Crossings | 2.5% |
| ISSAQUAH TC | Issaquah | New Streets | 2.4% |
| 156TH AVE NE & NE 15TH ST | Bellevue | New Streets | 2.4% |
| NE NORTHGATE WAY & 5TH AVE NE | Seattle | Greenways / Signalized Crossings | 2.4% |
| BURIEN TC | Burien | Bike Lanes | 2.4% |
| TOTEM LAKE TC | Kirkland | Bike Lanes | 2.4% |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Bike Lanes | 2.4% |
| SW 148TH ST & AMBAUM BLVD SW | Burien | Bike Lanes | 2.4% |
| BOEING ACS & S LONGACRES WAY | Renton | Off-street trails / Cycletracks | 2.4% |
| ISSAQUAH TC | Issaquah | Off-street trails / Cycletracks | 2.4% |
| INTERNATIONAL BLVD & S 188TH ST | SeaTac | New Streets | 2.3% |
| 156TH AVE NE & NE 15TH ST | Bellevue | Off-street trails / Cycletracks | 2.3% |
| 5TH AVE NE & NE 103RD ST | Seattle | Off-street trails / Cycletracks | 2.3% |
| AURORA AVE N & N 130TH ST | Seattle | Off-street trails / Cycletracks | 2.3% |
| AURORA AVE N & N 165TH ST | Shoreline | New Streets | 2.2% |
| BROADWAY E & E REPUBLICAN ST | Seattle | Greenways / Signalized Crossings | 2.2% |
| FAIRVIEW AVE N & MERCER ST | Seattle | Off-street trails / Cycletracks | 2.2% |
| TOTEM LAKE TC | Kirkland | Off-street trails / | 2.2% |



| Stop Location | Area | Project Type | Percent Change in |
|--------------------------|----------|----------------------------------|----------------------|
| | | | Ridership |
| | | Cycletracks | |
| 1ST AVE NE & NE 95TH | Seattle | Off-street trails / | 2.2% |
| ST | | Cycletracks | |
| INTERNATIONAL BLVD & | SeaTac | Off-street trails / | 2.2% |
| S 176TH ST | | Cycletracks | |
| NORTHGATE TC | Seattle | Greenways / Signalized Crossings | 2.2% |
| AURORA AVE N & N | Seattle | Greenways / Signalized | 2.1% |
| 85TH ST | | Crossings | |
| FAIRVIEW AVE N & | Seattle | Off-street trails / | 2.1% |
| VALLEY ST | | Cycletracks | |
| 148TH AVE NE & NE | Redmond | Off-street trails / | 2.1% |
| 51ST ST | | Cycletracks | |
| AURORA AVE N & N | Seattle | Greenways / Signalized | 2.1% |
| 91ST ST | C | Crossings | 2.40/ |
| MT BAKER STATION | Seattle | Greenways / Signalized | 2.1% |
| DDO A DIAVAN E O E IOUNI | Castella | Crossings | 2.00/ |
| BROADWAY E & E JOHN | Seattle | Greenways / Signalized | 2.0% |
| E ROY ST & BROADWAY | Seattle | Crossings Greenways / Signalized | 2.0% |
| E ROTST & BROADWAT | Seattle | Crossings | 2.0% |
| STRANDER BLVD & | Tukwila | Off-street trails / | 2.0% |
| ANDOVER PARK E | TURWIIA | Cycletracks | 2.070 |
| 15TH AVE NW & NW | Seattle | Off-street trails / | 2.0% |
| LEARY WAY | Seattle | Cycletracks | 2.070 |
| 15TH AVE NW & NW | Seattle | Greenways / Signalized | 2.0% |
| 65TH ST | | Crossings | |
| SOUTHCENTER BLVD & | Tukwila | New Streets | 2.0% |
| 62ND AVE S | | | |
| MARTIN L KING JR WAY | Seattle | Off-street trails / | 1.9% |
| & S MYRTLE ST | | Cycletracks | |
| MT BAKER STATION | Seattle | Off-street trails / | 1.9% |
| | | Cycletracks | |
| WOODLAND PL N & N | Seattle | Greenways / Signalized | 1.9% |
| 64TH ST | | Crossings | |
| SW ALASKA ST & | Seattle | Greenways / Signalized | 1.9% |
| CALIFORNIA AVE SW | | Crossings | |
| SW AVALON WAY & SW | Seattle | Off-street trails / | 1.9% |
| YANCY ST | | Cycletracks | |
| 3RD AVE & UNION ST | Seattle | Off-street trails / | 1.9% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|--------------------------------------|-------------|------------------------------------|-----------------------------------|
| | | Cycletracks | |
| BAY C & WESTLAKE STATION | Seattle | Off-street trails / Cycletracks | 1.9% |
| E UNION ST & | Seattle | Off-street trails / | 1.8% |
| BROADWAY | Seattle | Cycletracks | 1.0% |
| FAIRVIEW AVE E & YALE | Seattle | Off-street trails / | 1.8% |
| AVE N | Seattle | Cycletracks | 1.070 |
| SW ALASKA ST & | Seattle | Off-street trails / | 1.8% |
| CALIFORNIA AVE SW | | Cycletracks | |
| NE NORTHGATE WAY & | Seattle | Off-street trails / | 1.8% |
| ROOSEVELT WAY NE | | Cycletracks | |
| FEDERAL WAY TC | Federal Way | Bike Lanes | 1.8% |
| EVERETT SOUNDER | Everett | Bike Lanes | 1.8% |
| AURORA AVE N & N 185TH ST | Shoreline | Bike Lanes | 1.8% |
| AURORA VILLAGE TC | Shoreline | Bike Lanes | 1.8% |
| NORTHGATE TC | Seattle | Bike Lanes | 1.8% |
| OVERLAKE TC | Redmond | Bike Lanes | 1.8% |
| OVERLAKE TC | Redmond | Bike Lanes | 1.8% |
| SODO BUSWAY & S LANDER ST | Seattle | Bike Lanes | 1.8% |
| FAIRVIEW AVE N & MERCER ST | Seattle | Bike Lanes | 1.8% |
| 156TH AVE NE & NE 36TH ST | Redmond | New Streets | 1.8% |
| SW BARTON ST & 29TH AVE SW | Seattle | Greenways / Signalized Crossings | 1.8% |
| 148TH AVE NE & NE OLD REDMOND RD | Redmond | Off-street trails / Cycletracks | 1.7% |
| PACIFIC HWY S & S 288TH ST | Federal Way | Sidewalks | 1.7% |
| AURORA AVE N & N 145TH ST | Shoreline | New Streets | 1.7% |
| 148TH AVE NE & NE 87TH ST | Redmond | Off-street trails / Cycletracks | 1.7% |
| WEST VALLEY HWY & S LONGACRES WAY | Tukwila | Off-street trails / Cycletracks | 1.6% |
| S 180TH ST & SPERRY DR | Tukwila | Off-street trails / Cycletracks | 1.6% |



| Stop Location | Area | Project Type | Percent Change in |
|-----------------------|-------------|------------------------|----------------------|
| | | | Ridership |
| INTERNATIONAL BLVD & | SeaTac | Off-street trails / | 1.6% |
| S 188TH ST | | Cycletracks | |
| 5TH AVE NE & NE 112TH | Seattle | Greenways / Signalized | 1.6% |
| ST | | Crossings | |
| PACIFIC HWY S & S | Federal Way | Sidewalks | 1.6% |
| 312TH ST | | | |
| MARTIN L KING JR WAY | Seattle | Greenways / Signalized | 1.5% |
| & S MYRTLE ST | | Crossings | |
| WESTLAKE AVE N & | Seattle | Off-street trails / | 1.5% |
| MERCER ST | | Cycletracks | |
| LYNNWOOD TC | Lynnwood | Off-street trails / | 1.4% |
| | | Cycletracks | |
| MERIDIAN AVE N & N | Seattle | Off-street trails / | 1.4% |
| NORTHGATE WAY | | Cycletracks | |
| ANDOVER PARK W & | Tukwila | Off-street trails / | 1.4% |
| MINKLER BLVD | | Cycletracks | |
| 35TH AVE SW & SW | Seattle | Off-street trails / | 1.4% |
| AVALON WAY | | Cycletracks | |
| NE 8TH ST & 124TH AVE | Bellevue | Off-street trails / | 1.4% |
| NE | | Cycletracks | |
| AURORA AVE N & N | Seattle | Off-street trails / | 1.4% |
| 100TH ST | | Cycletracks | |
| ANDOVER PARK W & | Tukwila | Off-street trails / | 1.4% |
| BAKER BLVD | | Cycletracks | |
| ANDOVER PARK W & | Tukwila | Off-street trails / | 1.4% |
| BAKER BLVD | | Cycletracks | |
| WESTLAKE AVE N & | Seattle | Off-street trails / | 1.3% |
| HARRISON ST | | Cycletracks | |
| PACIFIC HWY S & S | Federal Way | Off-street trails / | 1.3% |
| 312TH ST | | Cycletracks | |
| S 154TH ST & 32ND AVE | SeaTac | New Streets | 1.3% |
| S | | | |
| DEXTER AVE N & | Seattle | Off-street trails / | 1.3% |
| MERCER ST | | Cycletracks | |
| 1ST AVE W & W MERCER | Seattle | Off-street trails / | 1.3% |
| ST | | Cycletracks | |
| VIRGINIA ST & 6TH AVE | Seattle | Off-street trails / | 1.2% |
| | | Cycletracks | |
| FAUNTLEROY WAY SW & | Seattle | Off-street trails / | 1.2% |
| CALIFORNIA AVE SW | | Cycletracks | |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|---------------------------------------|------------|------------------------------------|-----------------------------------|
| PACIFIC HWY S & S 272ND ST | Des Moines | Sidewalks | 1.2% |
| DENNY WAY & DEXTER AVE N | Seattle | Off-street trails / Cycletracks | 1.2% |
| E JEFFERSON ST & 15TH AVE | Seattle | Greenways / Signalized Crossings | 1.2% |
| MARTIN L KING JR WAY & S MYRTLE ST | Seattle | Bike Lanes | 1.2% |
| S 156TH ST & 1ST AVE S | Burien | Bike Lanes | 1.2% |
| REDMOND TC | Redmond | Bike Lanes | 1.2% |
| 156TH AVE NE & NE 45TH ST | Redmond | Bike Lanes | 1.2% |
| ISSAQUAH TC | Issaquah | Bike Lanes | 1.2% |
| AURORA AVE N & N 192ND ST | Shoreline | Bike Lanes | 1.2% |
| 148TH AVE NE & NE OLD REDMOND RD | Redmond | Bike Lanes | 1.2% |
| 156TH AVE NE & NE 36TH ST | Redmond | Bike Lanes | 1.2% |
| BELLEVUE TC | Bellevue | Bike Lanes | 1.2% |
| 15TH AVE W & W DRAVUS ST | Seattle | Bike Lanes | 1.2% |
| 15TH AVE NW & NW LEARY WAY | Seattle | Bike Lanes | 1.2% |
| SW ALASKA ST & CALIFORNIA AVE SW | Seattle | Bike Lanes | 1.2% |
| 1ST AVE W & W MERCER ST | Seattle | Bike Lanes | 1.2% |
| DENNY WAY & DEXTER AVE N | Seattle | Bike Lanes | 1.2% |
| E UNION ST & BROADWAY | Seattle | Bike Lanes | 1.2% |
| FAUNTLEROY WAY SW & SW BARTON ST | Seattle | Bike Lanes | 1.2% |
| WESTLAKE AVE N & HARRISON ST | Seattle | Bike Lanes | 1.2% |
| DEXTER AVE N & MERCER ST | Seattle | Bike Lanes | 1.2% |
| 156TH AVE NE & NE 24TH ST | Bellevue | Off-street trails / Cycletracks | 1.2% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|-----------------------|------------|-------------------------|-----------------------------------|
| BROADWAY E & E | Seattle | Off-street trails / | 1.1% |
| REPUBLICAN ST | | Cycletracks | |
| 156TH AVE NE & NE | Redmond | Off-street trails / | 1.1% |
| 36TH ST | | Cycletracks | |
| SW AVALON WAY & SW | Seattle | Greenways / Signalized | 1.1% |
| YANCY ST | | Crossings | |
| KING ST STATION | Seattle | Off-street trails / | 1.1% |
| | | Cycletracks | |
| AURORA AVE N & N | Shoreline | Off-street trails / | 1.1% |
| 145TH ST | | Cycletracks | |
| NE 8TH ST & 140TH AVE | Bellevue | Off-street trails / | 1.1% |
| NE | | Cycletracks | |
| 35TH AVE SW & SW | Seattle | Greenways / Signalized | 1.1% |
| AVALON WAY | | Crossings | |
| INTERNATIONAL BLVD & | SeaTac | Off-street trails / | 1.0% |
| S 182ND ST | | Cycletracks | |
| PACIFIC HWY S & KENT- | Des Moines | Sidewalks | 1.0% |
| DESMOINES RD | | | |
| BURIEN TC | Burien | Off-street trails / | 1.0% |
| NE 8TH ST & 140TH AVE | Bellevue | Cycletracks New Streets | 1.0% |
| NE 81H ST & 14UTH AVE | Bellevue | New Streets | 1.0% |
| AURORA AVE N & N | Seattle | Greenways / Signalized | 1.0% |
| 100TH ST | | Crossings | |
| AURORA AVE N & N | Shoreline | Off-street trails / | 1.0% |
| 192ND ST | | Cycletracks | |
| 15TH AVE NE & NE | Seattle | Off-street trails / | 1.0% |
| CAMPUS PKWY | | Cycletracks | |
| AURORA AVE N & N | Seattle | Greenways / Signalized | 1.0% |
| 46TH ST | | Crossings | |
| ELLIOTT AVE W & W | Seattle | Off-street trails / | 1.0% |
| PROSPECT ST | | Cycletracks | 1 00/ |
| MONTLAKE BLVD NE & | Seattle | Off-street trails / | 1.0% |
| NE 45TH ST | - 1 1 | Cycletracks | 0.00/ |
| SOUTHCENTER BLVD & | Tukwila | Off-street trails / | 0.9% |
| 62ND AVE S | D. A.A. | Cycletracks | 0.00/ |
| PACIFIC HWY S & S | Des Moines | Sidewalks | 0.9% |
| 240TH ST | Durion | Off street trails / | 0.00/ |
| 4TH AVE SW & SW | Burien | Off-street trails / | 0.9% |
| 156TH ST | | Cycletracks | |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|--|------------|------------------------------------|-----------------------------------|
| AURORA VILLAGE TC | Shoreline | Off-street trails / Cycletracks | 0.9% |
| NE 45TH ST & UNION BAY PL NE | Seattle | Off-street trails / Cycletracks | 0.8% |
| SOUTH TACOMA STATION | Tacoma | Off-street trails / Cycletracks | 0.8% |
| 3RD AVE & COLUMBIA ST | Seattle | Off-street trails / Cycletracks | 0.8% |
| PACIFIC HWY S & S 260TH ST | Des Moines | Sidewalks | 0.8% |
| PREFONTAINE PL S & YESLER WAY | Seattle | Off-street trails / Cycletracks | 0.8% |
| NE 45TH ST & 7TH AVE NE | Seattle | Greenways / Signalized Crossings | 0.8% |
| RENTON TC | Renton | Off-street trails / Cycletracks | 0.8% |
| BROADWAY E & E JOHN ST | Seattle | Off-street trails / Cycletracks | 0.8% |
| 15TH AVE NE & NE 45TH ST | Seattle | Off-street trails / Cycletracks | 0.8% |
| SODO BUSWAY & S ROYAL BROUGHAM WAY | Seattle | Off-street trails / Cycletracks | 0.8% |
| MONTLAKE BLVD NE & NE 45TH ST | Seattle | Greenways / Signalized Crossings | 0.8% |
| 156TH AVE NE & NE 10TH ST | Bellevue | Off-street trails / Cycletracks | 0.7% |
| FAUNTLEROY WAY SW & SW BARTON ST | Seattle | Off-street trails / Cycletracks | 0.7% |
| NE 45TH ST & 7TH AVE NE | Seattle | Off-street trails / Cycletracks | 0.7% |
| BELLEVUE TC | Bellevue | Off-street trails / Cycletracks | 0.7% |
| S HENDERSON ST & MARTIN L KING JR WAY | Seattle | Off-street trails / Cycletracks | 0.7% |
| NE 45TH ST & UNION BAY PL NE | Seattle | Greenways / Signalized Crossings | 0.7% |
| AURORA AVE N & GALER ST | Seattle | Off-street trails / Cycletracks | 0.7% |
| 156TH AVE NE & NE 10TH ST | Bellevue | New Streets | 0.7% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|-------------------------------------|-------------|------------------------------------|-----------------------------------|
| DENNY WAY & STEWART ST | Seattle | Off-street trails / Cycletracks | 0.7% |
| S 3RD ST & SHATTUCK AVE S | Renton | Off-street trails / Cycletracks | 0.7% |
| E DENNY WAY & BELLEVUE AVE E | Seattle | Off-street trails / Cycletracks | 0.7% |
| FAIRVIEW AVE E & YALE AVE N | Seattle | Greenways / Signalized Crossings | 0.7% |
| SENECA ST & 4TH AVE | Seattle | Off-street trails / Cycletracks | 0.7% |
| E DENNY WAY & BELLEVUE AVE E | Seattle | Greenways / Signalized Crossings | 0.6% |
| 3RD AVE & VINE ST | Seattle | Off-street trails / Cycletracks | 0.6% |
| TUK INTL BLVD STATION | Tukwila | New Streets | 0.6% |
| BROADWAY & E COLUMBIA ST | Seattle | Off-street trails / Cycletracks | 0.6% |
| PACIFIC HWY S & S 288TH ST | Federal Way | Off-street trails / Cycletracks | 0.6% |
| MT BAKER STATION | Seattle | New Streets | 0.6% |
| E MADISON ST & 17TH AVE | Seattle | Off-street trails / Cycletracks | 0.6% |
| E THOMAS ST & 16TH AVE E | Seattle | Off-street trails / Cycletracks | 0.6% |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Bike Lanes | 0.6% |
| SOUTH TACOMA STATION | Tacoma | Bike Lanes | 0.6% |
| PACIFIC HWY S & S 260TH ST | Des Moines | Bike Lanes | 0.6% |
| PACIFIC HWY S & S 312TH ST | Federal Way | Bike Lanes | 0.6% |
| 15TH AVE NE & NE 55TH ST | Seattle | Bike Lanes | 0.6% |
| PACIFIC HWY S & S 272ND ST | Des Moines | Bike Lanes | 0.6% |
| NE NORTHGATE WAY & ROOSEVELT WAY NE | Seattle | Bike Lanes | 0.6% |
| 5TH AVE NE & NE 103RD ST | Seattle | Bike Lanes | 0.6% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|---------------------------------------|-------------------|-------------------------------------|-----------------------------------|
| OVERLAKE VILLAGE | Redmond | Bike Lanes | 0.6% |
| 156TH AVE NE & NE 24TH ST | Bellevue | Bike Lanes | 0.6% |
| 148TH AVE NE & NE 40TH ST | Redmond | Bike Lanes | 0.6% |
| 156TH AVE NE & NE 31ST ST | Redmond | Bike Lanes | 0.6% |
| 148TH AVE NE & NE 51ST ST | Redmond | Bike Lanes | 0.6% |
| AURORA AVE N & N 145TH ST | Shoreline | Bike Lanes | 0.6% |
| 4TH AVE SW & SW 156TH ST | Burien | Bike Lanes | 0.6% |
| AMBAUM BLVD SW & SW 144TH ST | Burien | Bike Lanes | 0.6% |
| 1ST AVE NE & NE 95TH ST | Seattle | Bike Lanes | 0.6% |
| AURORA AVE N & GALER ST | Seattle | Bike Lanes | 0.6% |
| AURORA AVE N & N 130TH ST | Seattle | Bike Lanes | 0.6% |
| FAUNTLEROY WAY SW & CALIFORNIA AVE SW | Seattle | Bike Lanes | 0.6% |
| BEACON HILL STATION | Seattle | Bike Lanes | 0.6% |
| AURORA AVE N & N 100TH ST | Seattle | Bike Lanes | 0.6% |
| PREFONTAINE PL S & YESLER WAY | Seattle | Bike Lanes | 0.6% |
| SODO BUSWAY & S ROYAL BROUGHAM WAY | Seattle | Bike Lanes | 0.6% |
| DENNY WAY & STEWART ST | Seattle | Bike Lanes | 0.6% |
| E THOMAS ST & 16TH AVE E | Seattle | Bike Lanes | 0.6% |
| FAIRVIEW AVE E & YALE AVE N | Seattle | Bike Lanes | 0.6% |
| STRANDER BLVD & ANDOVER PARK W | Tukwila | Off-street trails / Cycletracks | 0.6% |
| MOUNTLAKE TERRACE | Mountlake Terrace | Greenways / Signalized Crossings | 0.6% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|----------------------------------|---------|-------------------------------------|-----------------------------------|
| NE PACIFIC ST & NE PACIFIC PL | Seattle | Greenways / Signalized Crossings | 0.5% |
| BROADWAY & E COLUMBIA ST | Seattle | Greenways / Signalized Crossings | 0.5% |
| S JACKSON ST & 12TH AVE S | Seattle | Greenways / Signalized Crossings | 0.5% |
| SODO BUSWAY & S LANDER ST | Seattle | Greenways / Signalized Crossings | 0.5% |
| 15TH AVE W & W DRAVUS ST | Seattle | Greenways / Signalized Crossings | 0.4% |
| TUK INTL BLVD STATION | Tukwila | Off-street trails / Cycletracks | 0.4% |
| FAIRVIEW AVE N & VALLEY ST | Seattle | Greenways / Signalized Crossings | 0.4% |
| NE PACIFIC ST & NE PACIFIC PL | Seattle | Off-street trails / Cycletracks | 0.4% |
| S 154TH ST & 32ND AVE S | SeaTac | Off-street trails / Cycletracks | 0.4% |
| AURORA AVE N & N 130TH ST | Seattle | Greenways / Signalized Crossings | 0.4% |
| E ROY ST & BROADWAY | Seattle | Off-street trails / Cycletracks | 0.4% |
| INTERNATIONAL BLVD & S 180TH ST | SeaTac | Off-street trails / Cycletracks | 0.4% |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Greenways / Signalized Crossings | 0.4% |
| BEACON HILL STATION | Seattle | New Streets | 0.4% |
| STH AVE S & S JACKSON | Seattle | Off-street trails / Cycletracks | 0.4% |
| OVERLAKE TC | Redmond | New Streets | 0.4% |
| OVERLAKE TC | Redmond | New Streets | 0.4% |
| E UNION ST & BROADWAY | Seattle | Greenways / Signalized Crossings | 0.4% |
| FAIRVIEW AVE N & MERCER ST | Seattle | Greenways / Signalized Crossings | 0.4% |
| WESTLAKE AVE N & MERCER ST | Seattle | Greenways / Signalized Crossings | 0.3% |
| S JACKSON ST & 12TH AVE S | Seattle | Off-street trails / Cycletracks | 0.3% |
| FAIRVIEW AVE N & | Seattle | Off-street trails / | 0.3% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|---------------------------------------|------------|-------------------------------------|-----------------------------------|
| HARRISON ST | | Cycletracks | |
| INTERNATIONAL BLVD & | SeaTac | Off-street trails / | 0.3% |
| S 208TH ST | | Cycletracks | |
| 15TH AVE E & E ROY ST | Seattle | Off-street trails / Cycletracks | 0.3% |
| PACIFIC HWY S & KENT- DESMOINES RD | Des Moines | Off-street trails / Cycletracks | 0.3% |
| S 156TH ST & 1ST AVE S | Burien | Off-street trails / Cycletracks | 0.3% |
| FAIRVIEW AVE N & HARRISON ST | Seattle | Greenways / Signalized Crossings | 0.3% |
| 5TH AVE NE & NE 106TH ST | Seattle | Off-street trails / Cycletracks | 0.3% |
| 15TH AVE NE & NE 45TH ST | Seattle | Greenways / Signalized Crossings | 0.3% |
| 148TH AVE NE & NE 40TH ST | Redmond | Off-street trails / Cycletracks | 0.2% |
| PACIFIC HWY S & S 272ND ST | Des Moines | Off-street trails / Cycletracks | 0.2% |
| 5TH AVE NE & NE 112TH ST | Seattle | Off-street trails / Cycletracks | 0.2% |
| 15TH AVE NW & NW MARKET ST | Seattle | Off-street trails / Cycletracks | 0.2% |
| BELLEVUE TC | Bellevue | New Streets | 0.2% |
| NE PACIFIC ST & 15TH AVE NE | Seattle | Off-street trails / Cycletracks | 0.2% |
| NE PACIFIC ST & 15TH AVE NE | Seattle | Greenways / Signalized Crossings | 0.2% |
| PACIFIC HWY S & S 240TH ST | Des Moines | Off-street trails / Cycletracks | 0.2% |
| NE NORTHGATE WAY & 5TH AVE NE | Seattle | Off-street trails / Cycletracks | 0.2% |
| INTERNATIONAL BLVD & S 216TH ST | SeaTac | Off-street trails / Cycletracks | 0.1% |
| 15TH AVE NW & NW 85TH ST | Seattle | Off-street trails / Cycletracks | 0.1% |
| PACIFIC HWY S & S 260TH ST | Des Moines | Off-street trails / Cycletracks | 0.1% |
| 4TH AVE N & W SMITH ST | Kent | Off-street trails / Cycletracks | 0.1% |



| Stop Location | Area | Project Type | Percent Change in Ridership |
|-------------------------------|---------|----------------------------------|-----------------------------------|
| 148TH AVE NE & NE 40TH ST | Redmond | New Streets | 0.1% |
| BAY A & CONVENTION PLACE | Seattle | Off-street trails / Cycletracks | 0.1% |
| BAY 1 & AUBURN TC | Auburn | New Streets | 0.1% |
| PREFONTAINE PL S & YESLER WAY | Seattle | Greenways / Signalized Crossings | 0.1% |
| 15TH AVE NE & NE 52ND ST | Seattle | Greenways / Signalized Crossings | 0.1% |
| 5TH AVE S & S JACKSON ST | Seattle | Greenways / Signalized Crossings | 0.1% |
| AURORA AVE N & PROSPECT ST | Seattle | Off-street trails / Cycletracks | 0.1% |
| AURORA AVE N & N 91ST ST | Seattle | Off-street trails / Cycletracks | 0.1% |
| DEXTER AVE N & HARRISON ST | Seattle | Off-street trails / Cycletracks | 0.1% |
| W JAMES ST & LINCOLN AVE N | Kent | Off-street trails / Cycletracks | 0.1% |



APPENDIX C. PROJECT TYPE RANKINGS BY POTENTIAL NEW RIDERS

| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|---------------------------------|-------------|---------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| NORTHGATE TC | Seattle | Off-street trails / Cycletracks | 6.8% | 443 | \$31.2 | \$19 |
| BAY C & WESTLAKE STATION | Seattle | Off-street trails / Cycletracks | 1.9% | 329 | \$15.7 | \$13 |
| 3RD AVE & UNION ST | Seattle | Off-street trails / Cycletracks | 1.9% | 249 | \$13.3 | \$14 |
| FEDERAL WAY TC | Federal Way | New Streets | 6.3% | 149 | \$10.4 | \$19 |
| | | Greenways / Signalized | | | | |
| NORTHGATE TC | Seattle | Crossings | 2.2% | 140 | \$4.5 | \$9 |
| NORTHGATE TC | Seattle | Bike Lanes | 1.8% | 116 | \$2.8 | \$6 |
| | | Greenways / Signalized | | | | |
| MT BAKER STATION | Seattle | Crossings | 2.1% | 88 | \$3.0 | \$9 |
| BELLEVUE TC | Bellevue | Bike Lanes | 1.2% | 87 | \$2.2 | \$7 |
| BEACON HILL STATION | Seattle | Off-street trails / Cycletracks | 3.1% | 87 | \$15.2 | \$47 |
| MT BAKER STATION | Seattle | Off-street trails / Cycletracks | 1.9% | 83 | \$10.5 | \$34 |
| REDMOND TC | Redmond | Off-street trails / Cycletracks | 4.3% | 76 | \$10.4 | \$36 |
| INTERNATIONAL BLVD & S 176TH ST | SeaTac | New Streets | 6.2% | 76 | \$6.6 | \$23 |
| FEDERAL WAY TC | Federal Way | Off-street trails / Cycletracks | 3.2% | 75 | \$7.4 | \$26 |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Off-street trails / Cycletracks | 1.0% | 65 | \$14.1 | \$58 |
| BURIEN TC | Burien | Bike Lanes | 2.4% | 65 | \$2.5 | \$10 |
| 3RD AVE & COLUMBIA ST | Seattle | Off-street trails / Cycletracks | 0.8% | 60 | \$11.7 | \$52 |
| BELLEVUE TC | Bellevue | Off-street trails / Cycletracks | 0.7% | 51 | \$8.9 | \$46 |
| | | Greenways / Signalized | | | | |
| BEACON HILL STATION | Seattle | Crossings | 1.8% | 51 | \$2.5 | \$13 |
| LYNNWOOD TC | Lynnwood | New Streets | 4.3% | 48 | \$8.9 | \$49 |
| SENECA ST & 4TH AVE | Seattle | Off-street trails / Cycletracks | 0.7% | 47 | \$13.1 | \$74 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|------------------------------------|-------------|-------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| | | Greenways / Signalized | | | | |
| 15TH AVE NW & NW MARKET ST | Seattle | Crossings | 3.4% | 47 | \$6.0 | \$35 |
| 5TH AVE S & S JACKSON ST | Seattle | Off-street trails / Cycletracks | 0.4% | 46 | \$11.6 | \$67 |
| | | Greenways / Signalized | | | | |
| 15TH AVE NW & NW 85TH ST | Seattle | Crossings | 4.1% | 46 | \$4.0 | \$24 |
| KING ST STATION | Seattle | Off-street trails / Cycletracks | 1.1% | 44 | \$11.0 | \$66 |
| FEDERAL WAY TC | Federal Way | Bike Lanes | 1.8% | 42 | \$2.2 | \$13 |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Bike Lanes | 0.6% | 40 | \$0.6 | \$4 |
| MARTIN L KING JR WAY & S MYRTLE ST | Seattle | Off-street trails / Cycletracks | 1.9% | 39 | \$11.8 | \$81 |
| SW ALASKA ST & CALIFORNIA AVE SW | Seattle | Greenways / Signalized Crossings | 1.9% | 37 | \$3.0 | \$22 |
| ISSAQUAH TC | Issaquah | New Streets | 2.4% | 36 | \$4.3 | \$32 |
| SW ALASKA ST & CALIFORNIA AVE SW | Seattle | Off-street trails / Cycletracks | 1.8% | 36 | \$6.1 | \$46 |
| ISSAQUAH TC | Issaquah | Off-street trails / Cycletracks | 2.4% | 35 | \$5.3 | \$41 |
| BAY 2 & TUK INTL BLVD STA | Tukwila | New Streets | 0.6% | 35 | \$1.9 | \$15 |
| PREFONTAINE PL S & YESLER WAY | Seattle | Off-street trails / Cycletracks | 0.8% | 34 | \$11.3 | \$88 |
| | | Greenways / Signalized | | | | |
| BROADWAY E & E JOHN ST | Seattle | Crossings | 2.0% | 34 | \$2.5 | \$20 |
| STRANDER BLVD & ANDOVER PARK W | Tukwila | New Streets | 4.0% | 32 | \$25.9 | \$218 |
| OVERLAKE VILLAGE | Redmond | New Streets | 7.9% | 31 | \$23.2 | \$199 |
| 1ST AVE W & W MERCER ST | Seattle | Off-street trails / Cycletracks | 1.3% | 30 | \$10.7 | \$94 |
| | | Greenways / Signalized | | | | |
| MARTIN L KING JR WAY & S MYRTLE ST | Seattle | Crossings | 1.5% | 30 | \$2.5 | \$22 |
| 1ST AVE W & W MERCER ST | Seattle | Bike Lanes | 1.2% | 29 | \$0.3 | \$3 |
| AURORA VILLAGE TC | Shoreline | Bike Lanes | 1.8% | 28 | \$1.3 | \$12 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|------------------------------------|----------|----------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| BURIEN TC | Burien | Off-street trails / Cycletracks | 1.0% | 28 | \$1.8 | \$18 |
| SODO BUSWAY & S LANDER ST | Seattle | Off-street trails / Cycletracks | 2.6% | 27 | \$12.1 | \$119 |
| INTERNATIONAL BLVD & S 176TH ST | SeaTac | Off-street trails / Cycletracks | 2.2% | 27 | \$6.9 | \$69 |
| MT BAKER STATION | Seattle | New Streets | 0.6% | 27 | \$0.6 | \$6 |
| PREFONTAINE PL S & YESLER WAY | Seattle | Bike Lanes | 0.6% | 26 | \$0.9 | \$9 |
| RENTON TC | Renton | Off-street trails / Cycletracks | 0.8% | 26 | \$1.7 | \$18 |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Greenways / Signalized Crossings | 0.4% | 25 | \$1.0 | \$11 |
| BAY 2 & TUK INTL BLVD STA | Tukwila | Off-street trails / Cycletracks | 0.4% | 24 | \$1.9 | \$20 |
| MARTIN L KING JR WAY & S MYRTLE ST | Seattle | Bike Lanes | 1.2% | 24 | \$1.1 | \$12 |
| OVERLAKE VILLAGE | Redmond | Off-street trails / Cycletracks | 6.1% | 24 | \$12.9 | \$144 |
| SW ALASKA ST & CALIFORNIA AVE SW | Seattle | Bike Lanes | 1.2% | 23 | \$1.1 | \$12 |
| AURORA AVE N & N NORTHGATE WAY | Seattle | Off-street trails / Cycletracks | 3.0% | 23 | \$5.2 | \$61 |
| REDMOND TC | Redmond | Bike Lanes | 1.2% | 21 | \$2.4 | \$30 |
| BROADWAY E & E REPUBLICAN ST | Seattle | Greenways / Signalized Crossings | 2.2% | 21 | \$2.5 | \$32 |
| 15TH AVE NW & NW LEARY WAY | Seattle | Greenways / Signalized Crossings | 3.4% | 21 | \$5.5 | \$72 |
| 15TH AVE NE & NE 45TH ST | Seattle | Off-street trails / Cycletracks | 0.8% | 21 | \$12.5 | \$163 |
| AURORA AVE N & N 85TH ST | Seattle | Greenways / Signalized Crossings | 2.1% | 20 | \$3.5 | \$46 |
| 156TH AVE NE & NE 15TH ST | Bellevue | New Streets | 2.4% | 20 | \$20.8 | \$280 |
| SODO BUSWAY & S LANDER ST | Seattle | Bike Lanes | 1.8% | 19 | \$0.5 | \$7 |
| 156TH AVE NE & NE 15TH ST | Bellevue | Off-street trails / Cycletracks | 2.3% | 19 | \$6.7 | \$94 |
| MERIDIAN AVE N & N 105TH ST | Seattle | Off-street trails / Cycletracks | 5.6% | 19 | \$6.3 | \$89 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|---------------------------------------|-----------|-------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| INTERNATIONAL BLVD & S 182ND ST | SeaTac | New Streets | 6.1% | 19 | \$6.6 | \$93 |
| | | Greenways / Signalized | | | | |
| NE NORTHGATE WAY & 5TH AVE NE | Seattle | Crossings | 2.4% | 18 | \$2.5 | \$37 |
| ISSAQUAH TC | Issaquah | Bike Lanes | 1.2% | 18 | \$3.0 | \$44 |
| BEACON HILL STATION | Seattle | Bike Lanes | 0.6% | 17 | \$1.9 | \$29 |
| OVERLAKE TC | Redmond | Bike Lanes | 1.8% | 17 | \$4.0 | \$61 |
| 5TH AVE NE & NE 103RD ST | Seattle | Greenways / Signalized Crossings | 2.9% | 16 | \$5.0 | \$82 |
| LYNNWOOD TC | Lynnwood | Off-street trails / Cycletracks | 1.4% | 16 | \$4.0 | \$66 |
| FAUNTLEROY WAY SW & CALIFORNIA AVE SW | Seattle | Greenways / Signalized Crossings | 3.0% | 16 | \$3.5 | \$59 |
| E MADISON ST & 17TH AVE | Seattle | Greenways / Signalized Crossings | 2.8% | 15 | \$4.0 | \$73 |
| NE PACIFIC ST & NE PACIFIC PL | Seattle | Greenways / Signalized Crossings | 0.5% | 15 | \$1.0 | \$19 |
| ANDOVER PARK W & BAKER BLVD | Tukwila | Off-street trails / Cycletracks | 1.4% | 14 | \$0.7 | \$12 |
| ANDOVER PARK W & BAKER BLVD | Tukwila | Off-street trails / Cycletracks | 1.4% | 14 | \$0.7 | \$12 |
| AURORA VILLAGE TC | Shoreline | Off-street trails / Cycletracks | 0.9% | 14 | \$0.8 | \$15 |
| DENNY WAY & DEXTER AVE N | Seattle | Off-street trails / Cycletracks | 1.2% | 14 | \$17.7 | \$335 |
| DENNY WAY & DEXTER AVE N | Seattle | Bike Lanes | 1.2% | 14 | \$0.8 | \$14 |
| 15TH AVE W & W DRAVUS ST | Seattle | Off-street trails / Cycletracks | 3.1% | 14 | \$7.1 | \$137 |
| BELLEVUE TC | Bellevue | New Streets | 0.2% | 14 | \$4.5 | \$86 |
| S JACKSON ST & 12TH AVE S | Seattle | Greenways / Signalized Crossings | 0.5% | 14 | \$0.5 | \$10 |
| SW BARTON ST & 29TH AVE SW | Seattle | Greenways / Signalized Crossings | 1.8% | 13 | \$2.5 | \$51 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|---------------------------------------|----------------------|-------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| 5TH AVE NE & NE 103RD ST | Seattle | Off-street trails / Cycletracks | 2.3% | 13 | \$6.7 | \$139 |
| S HENDERSON ST & MARTIN L KING JR WAY | Seattle | Off-street trails / Cycletracks | 0.7% | 13 | \$11.0 | \$231 |
| BROADWAY E & E JOHN ST | Seattle | Off-street trails / Cycletracks | 0.8% | 13 | \$10.6 | \$222 |
| INTERNATIONAL BLVD & S 188TH ST | SeaTac | New Streets | 2.3% | 13 | \$6.6 | \$138 |
| 35TH AVE SW & SW AVALON WAY | Seattle | Off-street trails / Cycletracks | 1.4% | 12 | \$9.4 | \$207 |
| 15TH AVE NW & NW LEARY WAY | Seattle | Off-street trails / Cycletracks | 2.0% | 12 | \$6.2 | \$139 |
| E THOMAS ST & 16TH AVE E | Seattle | Greenways / Signalized Crossings | 3.4% | 12 | \$4.5 | \$103 |
| NE PACIFIC ST & NE PACIFIC PL | Seattle | Off-street trails / Cycletracks | 0.4% | 12 | \$14.5 | \$334 |
| AURORA AVE N & N 130TH ST | Seattle | Off-street trails / Cycletracks | 2.3% | 12 | \$3.8 | \$87 |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Off-street trails / Cycletracks | 2.6% | 11 | \$2.2 | \$51 |
| E UNION ST & BROADWAY | Seattle | Off-street trails / Cycletracks | 1.8% | 11 | \$10.3 | \$245 |
| 5TH AVE NE & NE 106TH ST | Seattle | Greenways / Signalized Crossings | 2.5% | 11 | \$3.5 | \$86 |
| 15TH AVE NW & NW 65TH ST | Seattle | Greenways / Signalized Crossings | 2.0% | 11 | \$2.0 | \$50 |
| BROADWAY E & E REPUBLICAN ST | Seattle | Off-street trails / Cycletracks | 1.1% | 11 | \$10.9 | \$274 |
| CALIFORNIA AVE SW & SW FINDLAY ST | Seattle | Greenways / Signalized Crossings | 3.3% | 11 | \$3.0 | \$77 |
| BEACON HILL STATION | Seattle | New Streets | 0.4% | 10 | \$0.6 | \$15 |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Bike Lanes | 2.4% | 10 | \$2.5 | \$62 |
| PACIFIC HWY S & S 312TH ST | Federal Way | New Streets | 2.7% | 10 | \$10.4 | \$267 |
| 3RD AVE & VINE ST | Seattle | Off-street trails / Cycletracks | 0.6% | 10 | \$15.4 | \$415 |
| S JACKSON ST & 12TH AVE S | Seattle | Off-street trails / Cycletracks | 0.3% | 10 | \$8.4 | \$229 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|---------------------------------------|-----------|-------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| SODO BUSWAY & S ROYAL BROUGHAM WAY | Seattle | Off-street trails / Cycletracks | 0.8% | 10 | \$11.5 | \$322 |
| 5TH AVE S & S JACKSON ST | Seattle | Greenways / Signalized Crossings | 0.1% | 10 | \$0.8 | \$21 |
| E ROY ST & BROADWAY E | Seattle | Greenways / Signalized Crossings | 2.0% | 9 | \$2.5 | \$71 |
| 35TH AVE SW & SW AVALON WAY | Seattle | Greenways / Signalized Crossings | 1.1% | 9 | \$1.5 | \$43 |
| AURORA AVE N & N 185TH ST | Shoreline | Bike Lanes | 1.8% | 9 | \$2.1 | \$61 |
| BOEING ACS & S LONGACRES WAY | Renton | New Streets | 5.3% | 9 | \$13.9 | \$413 |
| 156TH AVE NE & NE 24TH ST | Bellevue | New Streets | 3.1% | 9 | \$20.8 | \$638 |
| INTERNATIONAL BLVD & S 188TH ST | SeaTac | Off-street trails / Cycletracks | 1.6% | 9 | \$9.1 | \$282 |
| SW AVALON WAY & SW YANCY ST | Seattle | Off-street trails / Cycletracks | 1.9% | 8 | \$9.5 | \$302 |
| 156TH AVE NE & NE 31ST ST | Redmond | New Streets | 5.6% | 8 | \$16.8 | \$559 |
| NE NORTHGATE WAY & ROOSEVELT WAY NE | Seattle | Greenways / Signalized Crossings | 4.0% | 8 | \$4.5 | \$159 |
| SODO BUSWAY & S ROYAL BROUGHAM WAY | Seattle | Bike Lanes | 0.6% | 8 | \$0.8 | \$26 |
| E UNION ST & BROADWAY | Seattle | Bike Lanes | 1.2% | 7 | \$0.9 | \$31 |
| 15TH AVE NW & NW LEARY WAY | Seattle | Bike Lanes | 1.2% | 7 | \$0.3 | \$11 |
| 15TH AVE NE & NE 45TH ST | Seattle | Greenways / Signalized Crossings | 0.3% | 7 | \$1.0 | \$38 |
| NE 8TH ST & 124TH AVE NE | Bellevue | New Streets | 4.9% | 7 | \$17.3 | \$671 |
| MERIDIAN AVE N & N NORTHGATE WAY | Seattle | Off-street trails / Cycletracks | 1.4% | 7 | \$5.9 | \$235 |
| | | Greenways / Signalized | | | | - |
| AURORA AVE N & N 46TH ST | Seattle | Crossings | 1.0% | 7 | \$2.0 | \$81 |
| FAUNTLEROY WAY SW & CALIFORNIA AVE SW | Seattle | Off-street trails / Cycletracks | 1.2% | 7 | \$8.2 | \$332 |
| 156TH AVE NE & NE 31ST ST | Redmond | Off-street trails / Cycletracks | 4.2% | 6 | \$7.1 | \$318 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|---------------------------------|-------------|---------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| PACIFIC HWY S & S 312TH ST | Federal Way | Sidewalks | 1.6% | 6 | \$3.7 | \$163 |
| | | Greenways / Signalized | | | | |
| 5TH AVE NE & NE 112TH ST | Seattle | Crossings | 1.6% | 6 | \$3.0 | \$137 |
| INTERNATIONAL BLVD & S 200TH ST | SeaTac | Off-street trails / Cycletracks | 2.6% | 6 | \$10.2 | \$464 |
| | | Greenways / Signalized | | | | |
| AURORA AVE N & N 91ST ST | Seattle | Crossings | 2.1% | 6 | \$2.5 | \$116 |
| 156TH AVE NE & NE 10TH ST | Bellevue | Off-street trails / Cycletracks | 0.7% | 6 | \$5.1 | \$235 |
| TOTEM LAKE TC | Kirkland | New Streets | 3.3% | 6 | \$0.9 | \$43 |
| 156TH AVE NE & NE 10TH ST | Bellevue | New Streets | 0.7% | 5 | \$9.6 | \$481 |
| 15TH AVE W & W DRAVUS ST | Seattle | Bike Lanes | 1.2% | 5 | \$0.4 | \$20 |
| S 180TH ST & SPERRY DR | Tukwila | New Streets | 3.4% | 5 | \$19.0 | \$971 |
| DENNY WAY & STEWART ST | Seattle | Off-street trails / Cycletracks | 0.7% | 5 | \$16.9 | \$888 |
| PACIFIC HWY S & S 288TH ST | Federal Way | Sidewalks | 1.7% | 5 | \$10.1 | \$520 |
| | | Greenways / Signalized | | | | |
| SW AVALON WAY & SW YANCY ST | Seattle | Crossings | 1.1% | 5 | \$2.0 | \$108 |
| PACIFIC HWY S & S 312TH ST | Federal Way | Off-street trails / Cycletracks | 1.3% | 5 | \$7.3 | \$397 |
| | | Greenways / Signalized | | | | |
| SODO BUSWAY & S LANDER ST | Seattle | Crossings | 0.5% | 5 | \$0.5 | \$28 |
| 15TH AVE NE & NE 55TH ST | Seattle | Bike Lanes | 0.6% | 5 | \$1.1 | \$62 |
| AURORA AVE N & N 192ND ST | Shoreline | Bike Lanes | 1.2% | 5 | \$2.3 | \$124 |
| STRANDER BLVD & ANDOVER PARK W | Tukwila | Off-street trails / Cycletracks | 0.6% | 5 | \$0.7 | \$38 |
| BAY A & CONVENTION PLACE | Seattle | Off-street trails / Cycletracks | 0.1% | 5 | \$16.1 | \$930 |
| E DENNY WAY & BELLEVUE AVE E | Seattle | Off-street trails / Cycletracks | 0.7% | 5 | \$14.7 | \$872 |
| DENNY WAY & STEWART ST | Seattle | Bike Lanes | 0.6% | 4 | \$0.9 | \$52 |
| E DENNY WAY & BELLEVUE AVE E | Seattle | Greenways / Signalized | 0.6% | 4 | \$1.0 | \$63 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|---------------------------------------|------------|---------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| | | Crossings | | | | |
| TOTEM LAKE TC | Kirkland | Bike Lanes | 2.4% | 4 | \$0.7 | \$48 |
| BOEING ACS & S LONGACRES WAY | Renton | Off-street trails / Cycletracks | 2.4% | 4 | \$0.7 | \$44 |
| AURORA AVE N & N 192ND ST | Shoreline | Off-street trails / Cycletracks | 1.0% | 4 | \$0.4 | \$27 |
| TOTEM LAKE TC | Kirkland | Off-street trails / Cycletracks | 2.2% | 4 | \$2.1 | \$146 |
| MONTLAKE BLVD NE & NE 45TH ST | Seattle | Off-street trails / Cycletracks | 1.0% | 4 | \$8.7 | \$644 |
| FAIRVIEW AVE N & VALLEY ST | Seattle | Off-street trails / Cycletracks | 2.1% | 4 | \$14.7 | \$1,098 |
| PACIFIC HWY S & S 240TH ST | Des Moines | Sidewalks | 0.9% | 4 | \$2.1 | \$151 |
| SOUTHCENTER BLVD & 62ND AVE S | Tukwila | New Streets | 2.0% | 4 | \$18.2 | \$1,383 |
| INTERNATIONAL BLVD & S 180TH ST | SeaTac | New Streets | 7.2% | 4 | \$6.6 | \$500 |
| | | Greenways / Signalized | | | | |
| PREFONTAINE PL S & YESLER WAY | Seattle | Crossings | 0.1% | 3 | \$0.8 | \$59 |
| NE NORTHGATE WAY & ROOSEVELT WAY NE | Seattle | Off-street trails / Cycletracks | 1.8% | 3 | \$8.5 | \$664 |
| 5TH AVE NE & NE 103RD ST | Seattle | Bike Lanes | 0.6% | 3 | \$2.8 | \$219 |
| OVERLAKE TC | Redmond | New Streets | 0.4% | 3 | \$11.5 | \$924 |
| AURORA AVE N & N 100TH ST | Seattle | Off-street trails / Cycletracks | 1.4% | 3 | \$5.7 | \$469 |
| 156TH AVE NE & NE 24TH ST | Bellevue | Off-street trails / Cycletracks | 1.2% | 3 | \$7.3 | \$605 |
| INTERNATIONAL BLVD & S 182ND ST | SeaTac | Off-street trails / Cycletracks | 1.0% | 3 | \$6.2 | \$516 |
| E MADISON ST & 17TH AVE | Seattle | Off-street trails / Cycletracks | 0.6% | 3 | \$3.1 | \$260 |
| FAUNTLEROY WAY SW & CALIFORNIA AVE SW | Seattle | Bike Lanes | 0.6% | 3 | \$0.8 | \$69 |
| 15TH AVE NW & NW MARKET ST | Seattle | Off-street trails / Cycletracks | 0.2% | 3 | \$4.3 | \$380 |
| AURORA AVE N & N 130TH ST | Seattle | Bike Lanes | 0.6% | 3 | \$0.4 | \$30 |
| PACIFIC HWY S & S 272ND ST | Des Moines | Sidewalks | 1.2% | 3 | \$7.8 | \$685 |
| AURORA AVE N & GALER ST | Seattle | Off-street trails / Cycletracks | 0.7% | 3 | \$11.9 | \$1,095 |
| 15TH AVE E & E ROY ST | Seattle | Greenways / Signalized | 2.9% | 3 | \$3.5 | \$325 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|-----------------------------------|----------------------|---|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|
| | | Crossings | | | | |
| 148TH AVE NE & NE 51ST ST | Redmond | Off-street trails / Cycletracks | 2.1% | 3 | \$3.7 | \$338 |
| | | Greenways / Signalized | | | | |
| MONTLAKE BLVD NE & NE 45TH ST | Seattle | Crossings | 0.8% | 3 | \$1.0 | \$95 |
| PACIFIC HWY S & KENT-DESMOINES RD | Des Moines | Sidewalks | 1.0% | 3 | \$0.4 | \$37 |
| ANDOVER PARK W & MINKLER BLVD | Tukwila | New Streets | 5.9% | 3 | \$25.9 | \$2,500 |
| FAUNTLEROY WAY SW & SW BARTON ST | Seattle | Bike Lanes | 1.2% | 3 | \$1.0 | \$95 |
| 148TH AVE NE & NE OLD REDMOND RD | Redmond | Off-street trails / Cycletracks | 1.7% | 3 | \$4.5 | \$457 |
| WESTLAKE AVE N & HARRISON ST | Seattle | Off-street trails / Cycletracks | 1.3% | 3 | \$18.1 | \$1,902 |
| AURORA AVE N & GALER ST | Seattle | Bike Lanes | 0.6% | 3 | \$1.0 | \$103 |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Greenways / Signalized Crossings | 0.6% | 3 | \$0.5 | \$54 |
| | Everett | Bike Lanes | 1.8% | 3 | \$0.5 | \$49 |
| S 180TH ST & SPERRY DR | Tukwila | Off-street trails / Cycletracks | 1.6% | 2 | \$0.3 | \$33 |
| AURORA AVE N & N 100TH ST | Seattle | Greenways / Signalized Crossings Greenways / Signalized | 1.0% | 2 | \$2.0 | \$221 |
| NE 45TH ST & 7TH AVE NE | Seattle | Crossings | 0.8% | 2 | \$1.5 | \$169 |
| WESTLAKE AVE N & HARRISON ST | Seattle | Bike Lanes | 1.2% | 2 | \$0.9 | \$93 |
| OVERLAKE VILLAGE | Redmond | Bike Lanes | 0.6% | 2 | \$4.8 | \$526 |
| NE PACIFIC ST & 15TH AVE NE | Seattle | Off-street trails / Cycletracks | 0.2% | 2 | \$14.6 | \$1,700 |
| | | Greenways / Signalized | _ | | | |
| NE PACIFIC ST & 15TH AVE NE | Seattle | Crossings | 0.2% | 2 | \$0.5 | \$59 |
| PACIFIC HWY S & S 312TH ST | Federal Way | Bike Lanes | 0.6% | 2 | \$1.6 | \$179 |
| ELLIOTT AVE W & W PROSPECT ST | Seattle | Off-street trails / Cycletracks | 1.0% | 2 | \$8.0 | \$942 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) |
|----------------------------------|-------------|---|--------------------------------------|-------------------------------|-----------------------------|-----------------------------|
| | | Greenways / Signalized | | | | |
| WOODLAND PL N & N 64TH ST | Seattle | Crossings | 1.9% | 2 | \$1.5 | \$181 |
| NE 45TH ST & 7TH AVE NE | Seattle | Off-street trails / Cycletracks | 0.7% | 2 | \$12.3 | \$1,470 |
| SW 148TH ST & AMBAUM BLVD SW | Burien | Bike Lanes | 2.4% | 2 | \$1.4 | \$161 |
| E UNION ST & BROADWAY | Seattle | Greenways / Signalized Crossings | 0.4% | 2 | \$0.5 | \$63 |
| E THOMAS ST & 16TH AVE E | Seattle | Off-street trails / Cycletracks | 0.6% | 2 | \$6.2 | \$792 |
| E THOMAS ST & 16TH AVE E | Seattle | Bike Lanes | 0.6% | 2 | \$0.8 | \$97 |
| AURORA AVE N & N 165TH ST | Shoreline | New Streets | 2.2% | 2 | \$3.9 | \$506 |
| AURORA AVE N & N 145TH ST | Shoreline | New Streets | 1.7% | 2 | \$3.9 | \$509 |
| 148TH AVE NE & NE 87TH ST | Redmond | Off-street trails / Cycletracks | 1.7% | 2 | \$8.9 | \$1,211 |
| 15TH AVE W & W DRAVUS ST | Seattle | Greenways / Signalized Crossings | 0.4% | 2 | \$1.0 | \$139 |
| AURORA AVE N & N 130TH ST | Seattle | Greenways / Signalized Crossings | 0.4% | 2 | \$0.5 | \$70 |
| ANDOVER PARK W & TRILAND DR | Tukwila | New Streets | 5.7% | 2 | \$20.9 | \$2,896 |
| NE 8TH ST & 124TH AVE NE | Bellevue | Off-street trails / Cycletracks | 1.4% | 2 | \$13.9 | \$1,951 |
| E ROY ST & BROADWAY E | Seattle | Off-street trails / Cycletracks | 0.4% | 2 | \$11.0 | \$1,600 |
| E JEEFERSON ST 9 45TH AVE | Carth | Greenways / Signalized | 1.2% | 2 | \$2.0 | ¢anc |
| E JEFFERSON ST & 15TH AVE | Seattle | Crossings Off street trails / Cycletrocks | + | 2 | | \$296 |
| PACIFIC HWY S & S 288TH ST | Federal Way | Off-street trails / Cycletracks | 0.6% | 2 | \$5.7 | \$849 |
| 148TH AVE NE & NE OLD REDMOND RD | Redmond | Bike Lanes | 1.2% | 2 | \$1.7 | \$246 |
| PACIFIC HWY S & S 260TH ST | Des Moines | Sidewalks | 0.8% | 2 | \$5.9 | \$844 |
| FAIRVIEW AVE N & MERCER ST | Seattle | Off-street trails / Cycletracks | 2.2% | 2 | \$15.2 | \$2,287 |
| SOUTHCENTER BLVD & 62ND AVE S | Tukwila | Off-street trails / Cycletracks | 0.9% | 2 | \$0.7 | \$105 |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) | |
|----------------------------------|------------|-------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|--|
| NE 8TH ST & 140TH AVE NE | Bellevue | Off-street trails / Cycletracks | 1.1% | 2 | \$7.8 | \$1,237 | |
| FAUNTLEROY WAY SW & SW BARTON ST | Seattle | Off-street trails / Cycletracks | 0.7% | 2 | \$4.4 | \$707 | |
| 156TH AVE NE & NE 24TH ST | Bellevue | Bike Lanes | 0.6% | 2 | \$4.1 | \$638 | |
| SOUTH TACOMA STATION | Tacoma | Off-street trails / Cycletracks | 0.8% | 2 | \$1.3 | \$207 | |
| DEXTER AVE N & MERCER ST | Seattle | Off-street trails / Cycletracks | 1.3% | 2 | \$15.5 | \$2,515 | |
| NE 45TH ST & UNION BAY PL NE | Seattle | Off-street trails / Cycletracks | 0.8% | 2 | \$3.3 | \$537 | |
| 15TH AVE NW & NW 85TH ST | Seattle | Off-street trails / Cycletracks | 0.1% | 2 | \$0.5 | \$80 | |
| NE 8TH ST & 140TH AVE NE | Bellevue | New Streets | 1.0% | 2 | \$22.9 | \$3,902 | |
| DEXTER AVE N & MERCER ST | Seattle | Bike Lanes | 1.2% | 2 | \$0.7 | \$117 | |
| 1ST AVE NE & NE 95TH ST | Seattle | Greenways / Signalized Crossings | 3.1% | 2 | \$4.5 | \$794 | |
| 148TH AVE NE & NE 40TH ST | Redmond | Bike Lanes | 0.6% | 1 | \$2.2 | \$378 | |
| FAIRVIEW AVE N & MERCER ST | Seattle | Bike Lanes | 1.8% | 1 | \$0.9 | \$165 | |
| AURORA AVE N & N 100TH ST | Seattle | Bike Lanes | 0.6% | 1 | \$1.5 | \$272 | |
| PACIFIC HWY S & S 272ND ST | Des Moines | Bike Lanes | 0.6% | 1 | \$1.3 | \$229 | |
| STRANDER BLVD & ANDOVER PARK E | Tukwila | New Streets | 6.4% | 1 | \$25.9 | \$4,902 | |
| NE 45TH ST & UNION BAY PL NE | Seattle | Greenways / Signalized Crossings | 0.7% | 1 | \$1.0 | \$201 | |
| PACIFIC HWY S & S 260TH ST | Des Moines | Bike Lanes | 0.6% | 1 | \$1.6 | \$322 | |
| AURORA AVE N & N 145TH ST | Shoreline | Off-street trails / Cycletracks | 1.1% | 1 | \$2.1 | \$424 | |
| ANDOVER PARK W & TRILAND DR | Tukwila | Off-street trails / Cycletracks | 3.8% | 1 | \$0.9 | \$190 | |
| S 156TH ST & 1ST AVE S | Burien | Bike Lanes | 1.2% | 1 | \$2.0 | \$416 | |
| WESTLAKE AVE N & MERCER ST | Seattle | Off-street trails / Cycletracks | 1.5% | 1 | \$16.2 | \$3,446 | |
| 5TH AVE NE & NE 106TH ST | Seattle | Off-street trails / Cycletracks | 0.3% | 1 | \$7.2 | \$1,566 | |
| 156TH AVE NE & NE 28TH ST | Redmond | New Streets | 5.3% | 1 | \$20.0 | \$4,424 | |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) | |
|-------------------------------------|------------|---|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|--|
| SOUTH TACOMA STATION | Tacoma | Bike Lanes | 0.6% | 1 | \$2.5 | \$543 | |
| NE NORTHGATE WAY & 5TH AVE NE | Seattle | Off-street trails / Cycletracks | 0.2% | 1 | \$8.0 | \$1,829 | |
| NE NORTHGATE WAY & ROOSEVELT WAY NE | Seattle | Bike Lanes | 0.6% | 1 | \$2.1 | \$488 | |
| 1ST AVE NE & NE 95TH ST | Seattle | Off-street trails / Cycletracks | 2.2% | 1 | \$6.7 | \$1,619 | |
| 4TH AVE SW & SW 156TH ST | Burien | Off-street trails / Cycletracks | 0.9% | 1 | \$2.3 | \$617 | |
| VIRGINIA ST & 6TH AVE | Seattle | Off-street trails / Cycletracks | 1.2% | 1 | \$17.7 | \$4,730 | |
| INTERNATIONAL BLVD & S 208TH ST | SeaTac | Off-street trails / Cycletracks | 0.3% | 1 | \$7.0 | \$1,893 | |
| BAY 1 & AUBURN TC | Auburn | New Streets | 0.1% | 1 | \$1.5 | \$450 | |
| 156TH AVE NE & NE 31ST ST | Redmond | Bike Lanes | 0.6% | 1 | \$4.5 | \$1,363 | |
| FAIRVIEW AVE N & HARRISON ST | Seattle | Off-street trails / Cycletracks | 0.3% | 1 | \$15.9 | \$4,973 | |
| 5TH AVE NE & NE 112TH ST | Seattle | Off-street trails / Cycletracks | 0.2% | 1 | \$9.5 | \$3,059 | |
| 148TH AVE NE & NE 51ST ST | Redmond | Bike Lanes | 0.6% | 1 | \$1.7 | \$523 | |
| PACIFIC HWY S & KENT-DESMOINES RD | Des Moines | Off-street trails / Cycletracks | 0.3% | 1 | \$2.5 | \$854 | |
| 156TH AVE NE & NE 28TH ST | Redmond | Off-street trails / Cycletracks | 3.4% | 1 | \$8.0 | \$2,702 | |
| FAIRVIEW AVE N & HARRISON ST | Seattle | Greenways / Signalized Crossings Greenways / Signalized | 0.3% | 1 | \$0.5 | \$185 | |
| FAIRVIEW AVE N & VALLEY ST | Seattle | Crossings | 0.4% | 1 | \$0.5 | \$189 | |
| AURORA AVE N & N 145TH ST | Shoreline | Bike Lanes | 0.6% | 1 | \$0.7 | \$270 | |
| INTERNATIONAL BLVD & S 216TH ST | SeaTac | Off-street trails / Cycletracks | 0.1% | 1 | \$5.3 | \$2,123 | |
| 4TH AVE SW & SW 156TH ST | Burien | Bike Lanes | 0.6% | 1 | \$2.0 | \$790 | |
| ANDOVER PARK W & MINKLER BLVD | Tukwila | Off-street trails / Cycletracks | 1.4% | 1 | \$1.4 | \$584 | |
| S 154TH ST & 32ND AVE S | SeaTac | New Streets | 1.3% | 1 | \$1.9 | \$810 | |
| PACIFIC HWY S & S 240TH ST | Des Moines | Off-street trails / Cycletracks | 0.2% | 1 | \$1.2 | \$506 | |
| FAIRVIEW AVE E & YALE AVE N | Seattle | Off-street trails / Cycletracks | 1.8% | 1 | \$14.9 | \$6,547 | |



| Stop Location | Area | Project Type | Percent Change in Ridership | Potential New Boardings | Estimated Cost (\$millions) | Ann. Cost per Rider (\$) | |
|----------------------------|------------|---------------------------------|--------------------------------------|-------------------------------|-----------------------------------|-----------------------------|--|
| 148TH AVE NE & NE 40TH ST | Redmond | Off-street trails / Cycletracks | 0.2% | 1 | \$5.9 | \$2,633 | |
| PACIFIC HWY S & S 272ND ST | Des Moines | Off-street trails / Cycletracks | 0.2% | 1 | \$1.5 | \$706 | |
| BROADWAY & E COLUMBIA ST | Seattle | Off-street trails / Cycletracks | 0.6% | 1 | \$11.6 | \$5,743 | |



APPENDIX D. DEMOGRAPHIC AND RANKING TABLES

Employment Change – 20 year horizon

Source: PSRC TAZ 2010

| Percent Change in | |
|-------------------|-------|
| Employment | Score |
| .33 | 1 |
| .3378 | 2 |
| .78-1.52 | 3 |
| 1.52-3.03 | 4 |
| >3.03 | 5 |

Population Change - 20 year horizon

Source: PSRC TAZ 2010

| Percent Change in | |
|-------------------|-------|
| Population | Score |
| <1.8 | 1 |
| 1.8-6.2 | 2 |
| 6.2-10.8 | 3 |
| 10.8-68.0 | 4 |
| >68.0 | 5 |

Note that the scoring shown in the tables is based on the range of scores of the study sites. While the study sites represent a large cross-section of the region, if other sites were added, the range, and thus the scoring of the sites could be affected.

Percent of station area under 24 years of age (half-mile buffer)

Source: Census 2010

| Doveout Under 24 | Caara |
|------------------|-------|
| Percent Under 24 | Score |
| <23.6 | 1 |
| 23.6-30.3 | 2 |
| 30.3-35.9 | 3 |
| 35.9-50.5 | 4 |
| >50.5 | 5 |

Percent of station area over 60 years of age (half-mile buffer)

Source: Census 2010

| Percent Over 60 | Score |
|-----------------|-------|
| <9.8 | 1 |
| .8-14.5 | 2 |
| 14.5-19.1 | 3 |
| 19.1-25.7 | 4 |
| >25.7 | 5 |



APPENDIX E. PROJECT TYPE PRIORITIZATION BY AGGREGATE METHOD

| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|------------------------------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| FEDERAL WAY TC | Federal Way | New Streets | \$ 10.35 | 9.2 | 7.2 | 7.5 | 24.0 |
| INTERNATIONAL BLVD & S 176TH ST | SeaTac | New Streets | \$ 6.57 | 8.9 | 7.1 | 7.5 | 23.4 |
| NORTHGATE TC | Seattle | Off-street trails / Cycletracks | \$ 31.20 | 7.0 | 7.8 | 7.5 | 22.3 |
| BURIEN TC | Burien | Bike Lanes | \$ 2.48 | 8.3 | 2.7 | 10.0 | 21.1 |
| FEDERAL WAY TC | Federal Way | Off-street trails / Cycletracks | \$ 7.39 | 9.2 | 3.7 | 7.5 | 20.4 |
| 15TH AVE NW & NW 85TH ST | Seattle | Greenways / Signalized Crossings | \$ 4.00 | 8.1 | 4.7 | 7.5 | 20.3 |
| MT BAKER STATION | Seattle | Greenways / Signalized Crossings | \$ 3.00 | 7.9 | 2.3 | 10.0 | 20.3 |
| PREFONTAINE PL S & YESLER WAY | Seattle | Bike Lanes | \$ 0.85 | 9.4 | 0.7 | 10.0 | 20.0 |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Bike Lanes | \$ 0.58 | 8.8 | 0.7 | 10.0 | 19.5 |
| NORTHGATE TC | Seattle | Greenways / Signalized Crossings | \$ 4.50 | 7.0 | 2.5 | 10.0 | 19.5 |
| BELLEVUE TC | Bellevue | Bike Lanes | \$ 2.22 | 8.1 | 1.4 | 10.0 | 19.5 |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Greenways / Signalized Crossings | \$ 1.00 | 8.8 | 0.4 | 10.0 | 19.3 |
| NORTHGATE TC | Seattle | Bike Lanes | \$ 2.85 | 7.0 | 2.1 | 10.0 | 19.1 |
| BAY C & WESTLAKE STATION | Seattle | Off-street trails / Cycletracks | \$ 15.69 | 9.3 | 2.1 | 7.5 | 18.9 |
| SODO BUSWAY & S LANDER ST | Seattle | Bike Lanes | \$ 0.55 | 6.8 | 2.1 | 10.0 | 18.9 |
| S JACKSON ST & 12TH AVE S | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 8.3 | 0.5 | 10.0 | 18.9 |
| FEDERAL WAY TC | Federal Way | Bike Lanes | \$ 2.16 | 9.2 | 2.1 | 7.5 | 18.8 |
| MT BAKER STATION | Seattle | New Streets | \$ 0.59 | 7.9 | 0.7 | 10.0 | 18.6 |
| AURORA VILLAGE TC | Shoreline | Bike Lanes | \$ 1.27 | 8.7 | 2.1 | 7.5 | 18.2 |
| OVERLAKE VILLAGE | Redmond | New Streets | \$ 23.22 | 8.1 | 9.1 | 1.0 | 18.1 |
| MARTIN L KING JR WAY & S MYRTLE ST | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 8.6 | 1.7 | 7.5 | 17.8 |
| INTERNATIONAL BLVD & S 182ND ST | SeaTac | New Streets | \$ 6.57 | 8.7 | 7.0 | 2.0 | 17.6 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|------------------------------------|-----------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| 15TH AVE NW & NW LEARY WAY | Seattle | Bike Lanes | \$ 0.31 | 7.5 | 0.2 | 10.0 | 17.6 |
| 5TH AVE S & S JACKSON ST | Seattle | Greenways / Signalized Crossings | \$ 0.75 | 9.8 | 0.2 | 7.5 | 17.6 |
| 1ST AVE W & W MERCER ST | Seattle | Bike Lanes | \$ 0.34 | 6.1 | 1.4 | 10.0 | 17.4 |
| MARTIN L KING JR WAY & S MYRTLE ST | Seattle | Bike Lanes | \$ 1.14 | 8.6 | 1.4 | 7.5 | 17.4 |
| 3RD AVE & UNION ST | Seattle | Off-street trails / Cycletracks | \$ 13.34 | 7.8 | 2.1 | 7.5 | 17.4 |
| AURORA VILLAGE TC | Shoreline | Off-street trails / Cycletracks | \$ 0.78 | 8.7 | 1.0 | 7.5 | 17.2 |
| NE PACIFIC ST & NE PACIFIC PL | Seattle | Greenways / Signalized Crossings | \$ 1.00 | 9.0 | 0.6 | 7.5 | 17.1 |
| BURIEN TC | Burien | Off-street trails / Cycletracks | \$ 1.82 | 8.3 | 1.2 | 7.5 | 17.0 |
| SW ALASKA ST & CALIFORNIA AVE SW | Seattle | Greenways / Signalized Crossings | \$ 3.00 | 7.2 | 2.2 | 7.5 | 16.8 |
| BEACON AVE S & S LANDER ST | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 7.1 | 2.0 | 7.5 | 16.6 |
| LYNNWOOD TC | Lynnwood | New Streets | \$ 8.91 | 8.6 | 4.9 | 3.0 | 16.5 |
| TUK INTL BLVD STATION | Tukwila | New Streets | \$ 1.95 | 8.3 | 0.7 | 7.5 | 16.5 |
| TUK INTL BLVD STATION | Tukwila | Off-street trails / Cycletracks | \$ 1.86 | 8.3 | 0.5 | 7.5 | 16.3 |
| AURORA AVE N & N 192ND ST | Shoreline | Off-street trails / Cycletracks | \$ 0.40 | 8.6 | 0.1 | 7.5 | 16.2 |
| ANDOVER PARK W & BAKER BLVD | Tukwila | Off-street trails / Cycletracks | \$ 0.66 | 7.1 | 1.5 | 7.5 | 16.1 |
| ANDOVER PARK W & BAKER BLVD | Tukwila | Off-street trails / Cycletracks | \$ 0.66 | 7.1 | 1.5 | 7.5 | 16.1 |
| SW ALASKA ST & CALIFORNIA AVE SW | Seattle | Bike Lanes | \$ 1.13 | 7.2 | 1.4 | 7.5 | 16.0 |
| OVERLAKE VILLAGE | Redmond | Off-street trails / Cycletracks | \$ 12.86 | 8.1 | 6.9 | 1.0 | 16.0 |
| REDMOND TC | Redmond | Off-street trails / Cycletracks | \$ 10.37 | 7.8 | 4.9 | 3.0 | 15.7 |
| MERIDIAN AVE N & N 105TH ST | Seattle | Off-street trails / Cycletracks | \$ 6.26 | 7.3 | 6.4 | 2.0 | 15.6 |
| BEACON HILL STATION | Seattle | New Streets | \$ 0.59 | 7.1 | 0.4 | 7.5 | 15.0 |
| 15TH AVE W & W DRAVUS ST | Seattle | Bike Lanes | \$ 0.41 | 7.3 | 0.1 | 7.5 | 14.9 |
| ISSAQUAH TC | Issaquah | New Streets | \$ 4.25 | 9.1 | 2.8 | 3.0 | 14.9 |
| ISSAQUAH TC | Issaquah | Off-street trails / Cycletracks | \$ 5.33 | 9.1 | 2.7 | 3.0 | 14.8 |
| RENTON TC | Renton | Off-street trails / Cycletracks | \$ 1.70 | 6.2 | 0.9 | 7.5 | 14.6 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|---------------------------------------|-------------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| BROADWAY E & E JOHN ST | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 4.7 | 2.3 | 7.5 | 14.5 |
| DENNY WAY & DEXTER AVE N | Seattle | Bike Lanes | \$ 0.76 | 5.6 | 1.4 | 7.5 | 14.5 |
| E THOMAS ST & 16TH AVE E | Seattle | Greenways / Signalized Crossings | \$ 4.50 | 8.7 | 3.8 | 2.0 | 14.5 |
| SODO BUSWAY & S LANDER ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 6.8 | 0.1 | 7.5 | 14.4 |
| SODO BUSWAY & S ROYAL BROUGHAM WAY | Seattle | Bike Lanes | \$ 0.77 | 6.7 | 0.2 | 7.5 | 14.4 |
| BOEING ACS & S LONGACRES WAY | Renton | Off-street trails / Cycletracks | \$ 0.66 | 10.6 | 0.1 | 3.0 | 13.7 |
| FAUNTLEROY WAY SW & CALIFORNIA AVE SW | Seattle | Greenways / Signalized Crossings | \$ 3.50 | 7.2 | 3.5 | 3.0 | 13.7 |
| BEACON HILL STATION | Seattle | Off-street trails / Cycletracks | \$ 15.19 | 7.1 | 3.5 | 3.0 | 13.6 |
| ISSAQUAH TC | Issaquah | Bike Lanes | \$ 3.04 | 9.1 | 1.4 | 3.0 | 13.5 |
| INTERNATIONAL BLVD & S 176TH ST | SeaTac | Off-street trails / Cycletracks | \$ 6.88 | 8.9 | 2.5 | 2.0 | 13.4 |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Off-street trails / Cycletracks | \$ 2.17 | 7.4 | 3.0 | 3.0 | 13.3 |
| 15TH AVE NW & NW LEARY WAY | Seattle | Greenways / Signalized Crossings | \$ 5.50 | 7.5 | 3.9 | 2.0 | 13.3 |
| MT BAKER STATION | Seattle | Off-street trails / Cycletracks | \$ 10.51 | 7.9 | 2.2 | 3.0 | 13.1 |
| 15TH AVE NE & NE CAMPUS PKWY | Seattle | Off-street trails / Cycletracks | \$ 14.08 | 8.8 | 1.1 | 3.0 | 13.0 |
| 15TH AVE NW & NW MARKET ST | Seattle | Greenways / Signalized Crossings | \$ 6.00 | 6.0 | 3.9 | 3.0 | 12.9 |
| PACIFIC HWY S & S 312TH ST | Federal Way | New Streets | \$ 10.35 | 8.8 | 3.1 | 1.0 | 12.9 |
| ANDOVER PARK W & BAKER BLVD | Tukwila | New Streets | \$ 25.41 | 7.1 | 4.8 | 1.0 | 12.8 |
| NE NORTHGATE WAY & 5TH AVE NE | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 7.1 | 2.8 | 3.0 | 12.8 |
| MARTIN L KING JR WAY & S MYRTLE ST | Seattle | Off-street trails / Cycletracks | \$ 11.82 | 8.6 | 2.2 | 2.0 | 12.8 |
| CALIFORNIA AVE SW & SW FINDLAY ST | Seattle | Greenways / Signalized Crossings | \$ 3.00 | 7.0 | 3.8 | 2.0 | 12.8 |
| AURORA AVE N & N NORTHGATE WAY | Seattle | Off-street trails / Cycletracks | \$ 5.19 | 7.3 | 3.4 | 2.0 | 12.8 |
| 5TH AVE NE & NE 103RD ST | Seattle | Greenways / Signalized Crossings | \$ 5.00 | 7.4 | 3.3 | 2.0 | 12.7 |
| SENECA ST & 4TH AVE | Seattle | Off-street trails / Cycletracks | \$ 13.13 | 10.0 | 0.7 | 2.0 | 12.7 |
| 156TH AVE NE & NE 15TH ST | Bellevue | Off-street trails / Cycletracks | \$ 6.67 | 8.0 | 2.7 | 2.0 | 12.7 |
| AURORA AVE N & N 130TH ST | Seattle | Off-street trails / Cycletracks | \$ 3.76 | 7.8 | 2.6 | 2.0 | 12.4 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|----------------------------------|-------------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| PREFONTAINE PL S & YESLER WAY | Seattle | Greenways / Signalized Crossings | \$ 0.75 | 9.4 | 0.1 | 3.0 | 12.4 |
| INTERNATIONAL BLVD & S 188TH ST | SeaTac | New Streets | \$ 6.57 | 8.7 | 2.7 | 1.0 | 12.4 |
| PREFONTAINE PL S & YESLER WAY | Seattle | Off-street trails / Cycletracks | \$ 11.29 | 9.4 | 0.9 | 2.0 | 12.3 |
| 5TH AVE S & S JACKSON ST | Seattle | Off-street trails / Cycletracks | \$ 11.57 | 9.8 | 0.4 | 2.0 | 12.3 |
| SW ALASKA ST & CALIFORNIA AVE SW | Seattle | Off-street trails / Cycletracks | \$ 6.08 | 7.2 | 2.1 | 3.0 | 12.3 |
| EVERETT SOUNDER | Everett | Bike Lanes | \$ 0.48 | 9.2 | 0.1 | 3.0 | 12.2 |
| LYNNWOOD TC | Lynnwood | Off-street trails / Cycletracks | \$ 3.97 | 8.6 | 1.6 | 2.0 | 12.2 |
| SW BARTON ST & 29TH AVE SW | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 7.2 | 2.0 | 3.0 | 12.2 |
| 15TH AVE NE & NE 45TH ST | Seattle | Greenways / Signalized Crossings | \$ 1.00 | 9.0 | 0.2 | 3.0 | 12.2 |
| STRANDER BLVD & ANDOVER PARK W | Tukwila | New Streets | \$ 25.90 | 6.6 | 4.6 | 1.0 | 12.2 |
| 3RD AVE & COLUMBIA ST | Seattle | Off-street trails / Cycletracks | \$ 11.74 | 8.2 | 0.9 | 3.0 | 12.2 |
| REDMOND TC | Redmond | Bike Lanes | \$ 2.41 | 7.8 | 1.4 | 3.0 | 12.2 |
| DENNY WAY & STEWART ST | Seattle | Bike Lanes | \$ 0.90 | 9.0 | 0.1 | 3.0 | 12.1 |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Bike Lanes | \$ 2.48 | 7.4 | 2.7 | 2.0 | 12.1 |
| AURORA AVE N & N 85TH ST | Seattle | Greenways / Signalized Crossings | \$ 3.50 | 6.5 | 2.4 | 3.0 | 12.0 |
| 15TH AVE NW & NW 65TH ST | Seattle | Greenways / Signalized Crossings | \$ 2.00 | 6.7 | 2.2 | 3.0 | 12.0 |
| 5TH AVE NE & NE 106TH ST | Seattle | Greenways / Signalized Crossings | \$ 3.50 | 7.1 | 2.9 | 2.0 | 11.9 |
| 15TH AVE W & W DRAVUS ST | Seattle | Off-street trails / Cycletracks | \$ 7.15 | 7.3 | 3.6 | 1.0 | 11.9 |
| BELLEVUE TC | Bellevue | Off-street trails / Cycletracks | \$ 8.86 | 8.1 | 0.8 | 3.0 | 11.9 |
| 156TH AVE NE & NE 15TH ST | Bellevue | New Streets | \$ 20.80 | 8.0 | 2.8 | 1.0 | 11.8 |
| SODO BUSWAY & S LANDER ST | Seattle | Off-street trails / Cycletracks | \$ 12.07 | 6.8 | 2.9 | 2.0 | 11.8 |
| OVERLAKE TC | Redmond | Bike Lanes | \$ 3.95 | 7.4 | 2.1 | 2.0 | 11.4 |
| BOEING ACS & S LONGACRES WAY | Renton | New Streets | \$ 13.91 | 10.6 | 0.2 | 0.3 | 11.1 |
| KING ST STATION | Seattle | Off-street trails / Cycletracks | \$ 10.96 | 7.8 | 1.3 | 2.0 | 11.1 |
| 5TH AVE NE & NE 103RD ST | Seattle | Off-street trails / Cycletracks | \$ 6.73 | 7.4 | 2.6 | 1.0 | 11.1 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|---------------------------------------|-------------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| E DENNY WAY & BELLEVUE AVE E | Seattle | Greenways / Signalized Crossings | \$ 1.00 | 8.8 | 0.1 | 2.0 | 10.9 |
| MONTLAKE BLVD NE & NE 45TH ST | Seattle | Greenways / Signalized Crossings | \$ 1.00 | 8.8 | 0.1 | 2.0 | 10.9 |
| 15TH AVE NE & NE 45TH ST | Seattle | Off-street trails / Cycletracks | \$ 12.53 | 9.0 | 0.9 | 1.0 | 10.9 |
| AURORA AVE N & N 130TH ST | Seattle | Bike Lanes | \$ 0.35 | 7.8 | 0.1 | 3.0 | 10.9 |
| BEACON HILL STATION | Seattle | Bike Lanes | \$ 1.91 | 7.1 | 0.7 | 3.0 | 10.8 |
| S 154TH ST & 32ND AVE S | SeaTac | New Streets | \$ 1.95 | 10.6 | 0.0 | 0.1 | 10.8 |
| E THOMAS ST & 16TH AVE E | Seattle | Bike Lanes | \$ 0.79 | 8.7 | 0.0 | 2.0 | 10.7 |
| 15TH AVE NW & NW LEARY WAY | Seattle | Off-street trails / Cycletracks | \$ 6.23 | 7.5 | 2.2 | 1.0 | 10.7 |
| TOTEM LAKE TC | Kirkland | New Streets | \$ 0.88 | 7.5 | 0.1 | 3.0 | 10.7 |
| S 154TH ST & 32ND AVE S | SeaTac | Off-street trails / Cycletracks | \$ 1.56 | 10.6 | 0.0 | 0.0 | 10.6 |
| TOTEM LAKE TC | Kirkland | Bike Lanes | \$ 0.75 | 7.5 | 0.1 | 3.0 | 10.6 |
| INTERNATIONAL BLVD & S 208TH ST | SeaTac | Off-street trails / Cycletracks | \$ 7.03 | 10.5 | 0.0 | 0.0 | 10.5 |
| AURORA AVE N & N 185TH ST | Shoreline | Bike Lanes | \$ 2.12 | 8.3 | 0.2 | 2.0 | 10.5 |
| PACIFIC HWY S & KENT-DESMOINES RD | Des Moines | Sidewalks | \$ 0.41 | 7.4 | 0.1 | 3.0 | 10.5 |
| MOUNTLAKE TERRACE TC | Mountlake Terrace | Greenways / Signalized Crossings | \$ 0.50 | 7.4 | 0.1 | 3.0 | 10.4 |
| E MADISON ST & 17TH AVE | Seattle | Greenways / Signalized Crossings | \$ 4.00 | 5.2 | 3.2 | 2.0 | 10.4 |
| SOUTH TACOMA STATION | Tacoma | Off-street trails / Cycletracks | \$ 1.28 | 9.3 | 0.0 | 1.0 | 10.3 |
| BELLEVUE TC | Bellevue | New Streets | \$ 4.47 | 8.1 | 0.2 | 2.0 | 10.3 |
| 15TH AVE NW & NW 85TH ST | Seattle | Off-street trails / Cycletracks | \$ 0.48 | 8.1 | 0.0 | 2.0 | 10.2 |
| NE PACIFIC ST & 15TH AVE NE | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 7.1 | 0.1 | 3.0 | 10.1 |
| BROADWAY E & E REPUBLICAN ST | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 4.4 | 2.5 | 3.0 | 10.0 |
| PACIFIC HWY S & S 312TH ST | Federal Way | Sidewalks | \$ 3.75 | 8.8 | 0.1 | 1.0 | 9.9 |
| INTERNATIONAL BLVD & S 188TH ST | SeaTac | Off-street trails / Cycletracks | \$ 9.10 | 8.7 | 0.2 | 1.0 | 9.9 |
| S HENDERSON ST & MARTIN L KING JR WAY | Seattle | Off-street trails / Cycletracks | \$ 11.02 | 8.1 | 0.8 | 1.0 | 9.9 |
| SW 148TH ST & AMBAUM BLVD SW | Burien | Bike Lanes | \$ 1.39 | 8.8 | 0.1 | 1.0 | 9.9 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|---------------------------------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| 148TH AVE NE & NE OLD REDMOND RD | Redmond | Bike Lanes | \$ 1.71 | 8.8 | 0.0 | 1.0 | 9.9 |
| FAIRVIEW AVE N & HARRISON ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 8.8 | 0.0 | 1.0 | 9.9 |
| AURORA AVE N & N 130TH ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 7.8 | 0.0 | 2.0 | 9.9 |
| S 180TH ST & SPERRY DR | Tukwila | Off-street trails / Cycletracks | \$ 0.31 | 6.8 | 0.1 | 3.0 | 9.8 |
| PACIFIC HWY S & S 312TH ST | Federal Way | Bike Lanes | \$ 1.58 | 8.8 | 0.1 | 1.0 | 9.8 |
| NE 8TH ST & 124TH AVE NE | Bellevue | New Streets | \$ 17.29 | 9.5 | 0.2 | 0.1 | 9.8 |
| NE PACIFIC ST & NE PACIFIC PL | Seattle | Off-street trails / Cycletracks | \$ 14.53 | 9.0 | 0.5 | 0.3 | 9.8 |
| 35TH AVE SW & SW AVALON WAY | Seattle | Greenways / Signalized Crossings | \$ 1.50 | 6.5 | 0.2 | 3.0 | 9.8 |
| AURORA AVE N & N 192ND ST | Shoreline | Bike Lanes | \$ 2.27 | 8.6 | 0.1 | 1.0 | 9.7 |
| STRANDER BLVD & ANDOVER PARK W | Tukwila | Off-street trails / Cycletracks | \$ 0.66 | 6.6 | 0.1 | 3.0 | 9.7 |
| SOUTH TACOMA STATION | Tacoma | Bike Lanes | \$ 2.52 | 9.3 | 0.0 | 0.3 | 9.6 |
| PACIFIC HWY S & S 240TH ST | Des Moines | Sidewalks | \$ 2.08 | 8.5 | 0.1 | 1.0 | 9.6 |
| NE 8TH ST & 124TH AVE NE | Bellevue | Off-street trails / Cycletracks | \$ 13.92 | 9.5 | 0.0 | 0.0 | 9.6 |
| AURORA AVE N & GALER ST | Seattle | Bike Lanes | \$ 1.01 | 7.5 | 0.1 | 2.0 | 9.6 |
| S JACKSON ST & 12TH AVE S | Seattle | Off-street trails / Cycletracks | \$ 8.37 | 8.3 | 0.2 | 1.0 | 9.6 |
| INTERNATIONAL BLVD & S 180TH ST | SeaTac | New Streets | \$ 6.57 | 9.2 | 0.1 | 0.3 | 9.6 |
| NE 45TH ST & UNION BAY PL NE | Seattle | Greenways / Signalized Crossings | \$ 1.00 | 8.5 | 0.0 | 1.0 | 9.5 |
| 1ST AVE W & W MERCER ST | Seattle | Off-street trails / Cycletracks | \$ 10.71 | 6.1 | 1.4 | 2.0 | 9.5 |
| FAUNTLEROY WAY SW & SW BARTON ST | Seattle | Bike Lanes | \$ 1.00 | 7.4 | 0.1 | 2.0 | 9.5 |
| 15TH AVE NE & NE 55TH ST | Seattle | Bike Lanes | \$ 1.14 | 7.3 | 0.1 | 2.0 | 9.4 |
| FAUNTLEROY WAY SW & CALIFORNIA AVE SW | Seattle | Bike Lanes | \$ 0.84 | 7.2 | 0.1 | 2.0 | 9.3 |
| DENNY WAY & STEWART ST | Seattle | Off-street trails / Cycletracks | \$ 16.93 | 9.0 | 0.1 | 0.1 | 9.2 |
| 148TH AVE NE & NE OLD REDMOND RD | Redmond | Off-street trails / Cycletracks | \$ 4.46 | 8.8 | 0.1 | 0.3 | 9.2 |
| PACIFIC HWY S & S 312TH ST | Federal Way | Off-street trails / Cycletracks | \$ 7.27 | 8.8 | 0.1 | 0.3 | 9.2 |
| INTERNATIONAL BLVD & S 180TH ST | SeaTac | Off-street trails / Cycletracks | \$ 6.95 | 9.2 | 0.0 | 0.0 | 9.2 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|-------------------------------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| SOUTHCENTER BLVD & 62ND AVE S | Tukwila | Off-street trails / Cycletracks | \$ 0.66 | 7.1 | 0.0 | 2.0 | 9.1 |
| 35TH AVE SW & SW AVALON WAY | Seattle | Off-street trails / Cycletracks | \$ 9.39 | 6.5 | 1.6 | 1.0 | 9.1 |
| AURORA AVE N & N 145TH ST | Shoreline | Bike Lanes | \$ 0.74 | 8.1 | 0.0 | 1.0 | 9.1 |
| NE 8TH ST & 140TH AVE NE | Bellevue | Off-street trails / Cycletracks | \$ 7.77 | 9.0 | 0.0 | 0.0 | 9.1 |
| NE 8TH ST & 140TH AVE NE | Bellevue | New Streets | \$ 22.93 | 9.0 | 0.0 | 0.0 | 9.1 |
| NE 45TH ST & 7TH AVE NE | Seattle | Greenways / Signalized Crossings | \$ 1.50 | 8.0 | 0.1 | 1.0 | 9.1 |
| E DENNY WAY & BELLEVUE AVE E | Seattle | Off-street trails / Cycletracks | \$ 14.74 | 8.8 | 0.1 | 0.1 | 9.1 |
| INTERNATIONAL BLVD & S 182ND ST | SeaTac | Off-street trails / Cycletracks | \$ 6.21 | 8.7 | 0.1 | 0.3 | 9.0 |
| MONTLAKE BLVD NE & NE 45TH ST | Seattle | Off-street trails / Cycletracks | \$ 8.70 | 8.8 | 0.1 | 0.1 | 9.0 |
| S 156TH ST & 1ST AVE S | Burien | Bike Lanes | \$ 2.03 | 8.7 | 0.0 | 0.3 | 9.0 |
| INTERNATIONAL BLVD & S 200TH ST | SeaTac | Off-street trails / Cycletracks | \$ 10.25 | 8.4 | 0.1 | 0.3 | 8.9 |
| FAIRVIEW AVE N & HARRISON ST | Seattle | Off-street trails / Cycletracks | \$ 15.87 | 8.8 | 0.0 | 0.0 | 8.9 |
| PACIFIC HWY S & S 240TH ST | Des Moines | Off-street trails / Cycletracks | \$ 1.15 | 8.5 | 0.0 | 0.3 | 8.9 |
| NE 45TH ST & UNION BAY PL NE | Seattle | Off-street trails / Cycletracks | \$ 3.27 | 8.5 | 0.0 | 0.3 | 8.8 |
| E THOMAS ST & 16TH AVE E | Seattle | Off-street trails / Cycletracks | \$ 6.24 | 8.7 | 0.0 | 0.1 | 8.8 |
| 156TH AVE NE & NE 10TH ST | Bellevue | Off-street trails / Cycletracks | \$ 5.06 | 7.7 | 0.1 | 1.0 | 8.8 |
| 5TH AVE NE & NE 112TH ST | Seattle | Greenways / Signalized Crossings | \$ 3.00 | 7.6 | 0.1 | 1.0 | 8.7 |
| NE NORTHGATE WAY & ROOSEVELT WAY NE | Seattle | Greenways / Signalized Crossings | \$ 4.50 | 7.6 | 0.2 | 1.0 | 8.7 |
| S 156TH ST & 1ST AVE S | Burien | Off-street trails / Cycletracks | \$ 4.67 | 8.7 | 0.0 | 0.0 | 8.7 |
| AMBAUM BLVD SW & SW 144TH ST | Burien | Bike Lanes | \$ 1.21 | 8.6 | 0.0 | 0.1 | 8.7 |
| SW AVALON WAY & SW YANCY ST | Seattle | Greenways / Signalized Crossings | \$ 2.00 | 6.5 | 0.1 | 2.0 | 8.6 |
| PACIFIC HWY S & S 272ND ST | Des Moines | Bike Lanes | \$ 1.26 | 7.6 | 0.0 | 1.0 | 8.6 |
| TOTEM LAKE TC | Kirkland | Off-street trails / Cycletracks | \$ 2.05 | 7.5 | 0.1 | 1.0 | 8.6 |
| PACIFIC HWY S & S 288TH ST | Federal Way | Sidewalks | \$ 10.13 | 8.2 | 0.1 | 0.3 | 8.6 |
| W JAMES ST & LINCOLN AVE N | Kent | Off-street trails / Cycletracks | \$ 0.97 | 8.6 | 0.0 | 0.0 | 8.6 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|----------------------------------|-------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| AURORA AVE N & N 165TH ST | Shoreline | New Streets | \$ 3.87 | 8.2 | 0.0 | 0.3 | 8.5 |
| 5TH AVE NE & NE 103RD ST | Seattle | Bike Lanes | \$ 2.85 | 7.4 | 0.1 | 1.0 | 8.5 |
| AURORA AVE N & N 145TH ST | Shoreline | New Streets | \$ 3.87 | 8.1 | 0.0 | 0.3 | 8.4 |
| 15TH AVE NE & NE 52ND ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 8.3 | 0.0 | 0.1 | 8.4 |
| AURORA AVE N & N 145TH ST | Shoreline | Off-street trails / Cycletracks | \$ 2.07 | 8.1 | 0.0 | 0.3 | 8.4 |
| OVERLAKE VILLAGE | Redmond | Bike Lanes | \$ 4.78 | 8.1 | 0.1 | 0.3 | 8.4 |
| E ROY ST & BROADWAY E | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 6.2 | 0.2 | 2.0 | 8.4 |
| ANDOVER PARK W & TRILAND DR | Tukwila | Off-street trails / Cycletracks | \$ 0.92 | 7.4 | 0.0 | 1.0 | 8.4 |
| 15TH AVE W & W DRAVUS ST | Seattle | Greenways / Signalized Crossings | \$ 1.00 | 7.3 | 0.0 | 1.0 | 8.4 |
| 4TH AVE SW & SW 156TH ST | Burien | Off-street trails / Cycletracks | \$ 2.33 | 8.2 | 0.0 | 0.1 | 8.4 |
| 4TH AVE SW & SW 156TH ST | Burien | Bike Lanes | \$ 2.00 | 8.2 | 0.0 | 0.1 | 8.4 |
| 156TH AVE NE & NE 24TH ST | Bellevue | New Streets | \$ 20.80 | 8.0 | 0.2 | 0.1 | 8.3 |
| PACIFIC HWY S & S 288TH ST | Federal Way | Off-street trails / Cycletracks | \$ 5.75 | 8.2 | 0.0 | 0.1 | 8.3 |
| BAY 1 & AUBURN TC | Auburn | New Streets | \$ 1.53 | 8.0 | 0.0 | 0.3 | 8.3 |
| WESTLAKE AVE N & HARRISON ST | Seattle | Bike Lanes | \$ 0.85 | 6.2 | 0.1 | 2.0 | 8.2 |
| 156TH AVE NE & NE 24TH ST | Bellevue | Off-street trails / Cycletracks | \$ 7.28 | 8.0 | 0.1 | 0.1 | 8.2 |
| AURORA AVE N & N 46TH ST | Seattle | Greenways / Signalized Crossings | \$ 2.00 | 6.0 | 0.2 | 2.0 | 8.2 |
| 156TH AVE NE & NE 24TH ST | Bellevue | Bike Lanes | \$ 4.11 | 8.0 | 0.0 | 0.1 | 8.2 |
| WOODLAND PL N & N 64TH ST | Seattle | Greenways / Signalized Crossings | \$ 1.50 | 7.1 | 0.1 | 1.0 | 8.2 |
| INTERNATIONAL BLVD & S 216TH ST | SeaTac | Off-street trails / Cycletracks | \$ 5.26 | 8.1 | 0.0 | 0.0 | 8.1 |
| 156TH AVE NE & NE 10TH ST | Bellevue | New Streets | \$ 9.58 | 7.7 | 0.1 | 0.3 | 8.1 |
| 4TH AVE N & W SMITH ST | Kent | Off-street trails / Cycletracks | \$ 0.39 | 7.8 | 0.0 | 0.3 | 8.1 |
| MERIDIAN AVE N & N NORTHGATE WAY | Seattle | Off-street trails / Cycletracks | \$ 5.94 | 6.9 | 0.2 | 1.0 | 8.1 |
| 15TH AVE E & E ROY ST | Seattle | Greenways / Signalized Crossings | \$ 3.50 | 7.7 | 0.1 | 0.3 | 8.1 |
| NE 45TH ST & 7TH AVE NE | Seattle | Off-street trails / Cycletracks | \$ 12.29 | 8.0 | 0.1 | 0.0 | 8.1 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|---------------------------------------|------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| PACIFIC HWY S & S 260TH ST | Des Moines | Bike Lanes | \$ 1.63 | 7.7 | 0.0 | 0.3 | 8.0 |
| VIRGINIA ST & 6TH AVE | Seattle | Off-street trails / Cycletracks | \$ 17.69 | 8.0 | 0.0 | 0.0 | 8.0 |
| 156TH AVE NE & NE 31ST ST | Redmond | New Streets | \$ 16.76 | 7.4 | 0.2 | 0.3 | 7.9 |
| NE NORTHGATE WAY & ROOSEVELT WAY NE | Seattle | Bike Lanes | \$ 2.14 | 7.6 | 0.0 | 0.3 | 7.9 |
| 156TH AVE NE & NE 31ST ST | Redmond | Off-street trails / Cycletracks | \$ 7.07 | 7.4 | 0.1 | 0.3 | 7.9 |
| PACIFIC HWY S & S 260TH ST | Des Moines | Sidewalks | \$ 5.85 | 7.7 | 0.0 | 0.1 | 7.9 |
| PACIFIC HWY S & S 260TH ST | Des Moines | Off-street trails / Cycletracks | \$ 0.68 | 7.7 | 0.0 | 0.1 | 7.8 |
| PACIFIC HWY S & S 272ND ST | Des Moines | Sidewalks | \$ 7.82 | 7.6 | 0.1 | 0.1 | 7.8 |
| NE NORTHGATE WAY & ROOSEVELT WAY NE | Seattle | Off-street trails / Cycletracks | \$ 8.51 | 7.6 | 0.1 | 0.1 | 7.7 |
| BAY A & CONVENTION PLACE | Seattle | Off-street trails / Cycletracks | \$ 16.12 | 7.5 | 0.1 | 0.1 | 7.7 |
| PACIFIC HWY S & S 272ND ST | Des Moines | Off-street trails / Cycletracks | \$ 1.49 | 7.6 | 0.0 | 0.1 | 7.7 |
| 15TH AVE E & E ROY ST | Seattle | Off-street trails / Cycletracks | \$ 9.73 | 7.7 | 0.0 | 0.0 | 7.7 |
| 148TH AVE NE & NE 51ST ST | Redmond | Off-street trails / Cycletracks | \$ 3.68 | 7.3 | 0.1 | 0.3 | 7.7 |
| AURORA AVE N & GALER ST | Seattle | Off-street trails / Cycletracks | \$ 11.94 | 7.5 | 0.1 | 0.1 | 7.7 |
| 156TH AVE NE & NE 28TH ST | Redmond | New Streets | \$ 20.04 | 7.7 | 0.0 | 0.0 | 7.7 |
| FAUNTLEROY WAY SW & CALIFORNIA AVE SW | Seattle | Off-street trails / Cycletracks | \$ 8.16 | 7.2 | 0.1 | 0.3 | 7.7 |
| 156TH AVE NE & NE 28TH ST | Redmond | Off-street trails / Cycletracks | \$ 7.96 | 7.7 | 0.0 | 0.0 | 7.7 |
| FAIRVIEW AVE N & MERCER ST | Seattle | Bike Lanes | \$ 0.92 | 6.6 | 0.0 | 1.0 | 7.7 |
| 148TH AVE NE & NE 51ST ST | Redmond | Bike Lanes | \$ 1.67 | 7.3 | 0.0 | 0.3 | 7.7 |
| 5TH AVE NE & NE 112TH ST | Seattle | Off-street trails / Cycletracks | \$ 9.50 | 7.6 | 0.0 | 0.0 | 7.6 |
| E UNION ST & BROADWAY | Seattle | Bike Lanes | \$ 0.87 | 4.4 | 0.2 | 3.0 | 7.6 |
| FAUNTLEROY WAY SW & SW BARTON ST | Seattle | Off-street trails / Cycletracks | \$ 4.42 | 7.4 | 0.0 | 0.1 | 7.6 |
| E JEFFERSON ST & 15TH AVE | Seattle | Greenways / Signalized Crossings | \$ 2.00 | 6.5 | 0.0 | 1.0 | 7.6 |
| OVERLAKE TC | Redmond | New Streets | \$ 11.52 | 7.4 | 0.1 | 0.1 | 7.5 |
| E UNION ST & BROADWAY | Seattle | Off-street trails / Cycletracks | \$ 10.31 | 4.4 | 2.1 | 1.0 | 7.5 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|------------------------------------|------------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| PACIFIC HWY S & KENT-DESMOINES RD | Des Moines | Off-street trails / Cycletracks | \$ 2.54 | 7.4 | 0.0 | 0.1 | 7.5 |
| 1ST AVE NE & NE 95TH ST | Seattle | Greenways / Signalized Crossings | \$ 4.50 | 7.3 | 0.0 | 0.1 | 7.5 |
| 156TH AVE NE & NE 31ST ST | Redmond | Bike Lanes | \$ 4.52 | 7.4 | 0.0 | 0.0 | 7.5 |
| 148TH AVE NE & NE 87TH ST | Redmond | Off-street trails / Cycletracks | \$ 8.91 | 7.4 | 0.0 | 0.0 | 7.5 |
| 148TH AVE NE & NE 40TH ST | Redmond | Bike Lanes | \$ 2.18 | 7.1 | 0.0 | 0.3 | 7.5 |
| DEXTER AVE N & MERCER ST | Seattle | Bike Lanes | \$ 0.70 | 6.4 | 0.0 | 1.0 | 7.5 |
| ANDOVER PARK W & TRILAND DR | Tukwila | New Streets | \$ 20.89 | 7.4 | 0.0 | 0.0 | 7.4 |
| OVERLAKE TC | Redmond | New Streets | \$ 11.52 | 7.2 | 0.1 | 0.1 | 7.4 |
| BROADWAY & E COLUMBIA ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 7.1 | 0.0 | 0.3 | 7.4 |
| OVERLAKE TC | Redmond | Off-street trails / Cycletracks | \$ 6.87 | 7.4 | 0.0 | 0.0 | 7.4 |
| 1ST AVE NE & NE 95TH ST | Seattle | Off-street trails / Cycletracks | \$ 6.65 | 7.3 | 0.0 | 0.0 | 7.4 |
| AURORA AVE N & N 100TH ST | Seattle | Greenways / Signalized Crossings | \$ 2.00 | 6.3 | 0.1 | 1.0 | 7.3 |
| 1ST AVE NE & NE 95TH ST | Seattle | Bike Lanes | \$ 2.26 | 7.3 | 0.0 | 0.0 | 7.3 |
| DENNY WAY & DEXTER AVE N | Seattle | Off-street trails / Cycletracks | \$ 17.68 | 5.6 | 1.4 | 0.3 | 7.3 |
| AURORA AVE N & N 100TH ST | Seattle | Bike Lanes | \$ 1.51 | 6.3 | 0.0 | 1.0 | 7.3 |
| AURORA AVE N & N 91ST ST | Seattle | Greenways / Signalized Crossings | \$ 2.50 | 5.1 | 0.1 | 2.0 | 7.3 |
| OVERLAKE TC | Redmond | Off-street trails / Cycletracks | \$ 6.87 | 7.2 | 0.0 | 0.0 | 7.2 |
| SODO BUSWAY & S ROYAL BROUGHAM WAY | Seattle | Off-street trails / Cycletracks | \$ 11.51 | 6.7 | 0.2 | 0.3 | 7.2 |
| SOUTHCENTER BLVD & 62ND AVE S | Tukwila | New Streets | \$ 18.21 | 7.1 | 0.1 | 0.0 | 7.2 |
| 148TH AVE NE & NE 40TH ST | Redmond | Off-street trails / Cycletracks | \$ 5.89 | 7.1 | 0.0 | 0.0 | 7.1 |
| NE PACIFIC ST & 15TH AVE NE | Seattle | Off-street trails / Cycletracks | \$ 14.62 | 7.1 | 0.1 | 0.0 | 7.1 |
| ELLIOTT AVE W & W PROSPECT ST | Seattle | Off-street trails / Cycletracks | \$ 8.03 | 7.0 | 0.1 | 0.1 | 7.1 |
| 148TH AVE NE & NE 40TH ST | Redmond | New Streets | \$ 11.12 | 7.1 | 0.0 | 0.0 | 7.1 |
| 5TH AVE NE & NE 106TH ST | Seattle | Off-street trails / Cycletracks | \$ 7.16 | 7.1 | 0.0 | 0.0 | 7.1 |
| NE NORTHGATE WAY & 5TH AVE NE | Seattle | Off-street trails / Cycletracks | \$ 8.03 | 7.1 | 0.0 | 0.0 | 7.1 |



| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|--------------------------------|---------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| BROADWAY & E COLUMBIA ST | Seattle | Off-street trails / Cycletracks | \$ 11.58 | 7.1 | 0.0 | 0.0 | 7.1 |
| ANDOVER PARK W & MINKLER BLVD | Tukwila | Off-street trails / Cycletracks | \$ 1.42 | 6.8 | 0.0 | 0.3 | 7.1 |
| SW AVALON WAY & SW YANCY ST | Seattle | Off-street trails / Cycletracks | \$ 9.47 | 6.5 | 0.2 | 0.3 | 7.0 |
| S 180TH ST & SPERRY DR | Tukwila | New Streets | \$ 18.99 | 6.8 | 0.1 | 0.1 | 7.0 |
| STRANDER BLVD & ANDOVER PARK E | Tukwila | Off-street trails / Cycletracks | \$ 0.66 | 6.7 | 0.0 | 0.3 | 7.0 |
| WESTLAKE AVE N & MERCER ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 6.7 | 0.0 | 0.3 | 7.0 |
| FAIRVIEW AVE N & MERCER ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 6.6 | 0.0 | 0.3 | 6.9 |
| ANDOVER PARK W & MINKLER BLVD | Tukwila | New Streets | \$ 25.90 | 6.8 | 0.1 | 0.0 | 6.8 |
| STRANDER BLVD & ANDOVER PARK E | Tukwila | New Streets | \$ 25.90 | 6.7 | 0.0 | 0.0 | 6.7 |
| BROADWAY E & E REPUBLICAN ST | Seattle | Off-street trails / Cycletracks | \$ 10.92 | 4.4 | 1.3 | 1.0 | 6.7 |
| WESTLAKE AVE N & MERCER ST | Seattle | Off-street trails / Cycletracks | \$ 16.21 | 6.7 | 0.0 | 0.0 | 6.7 |
| FAIRVIEW AVE N & VALLEY ST | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 5.7 | 0.0 | 1.0 | 6.7 |
| FAIRVIEW AVE N & MERCER ST | Seattle | Off-street trails / Cycletracks | \$ 15.24 | 6.6 | 0.0 | 0.0 | 6.7 |
| AURORA AVE N & N 100TH ST | Seattle | Off-street trails / Cycletracks | \$ 5.73 | 6.3 | 0.1 | 0.3 | 6.7 |
| BROADWAY E & E JOHN ST | Seattle | Off-street trails / Cycletracks | \$ 10.59 | 4.7 | 0.9 | 1.0 | 6.6 |
| 156TH AVE NE & NE 45TH ST | Redmond | Bike Lanes | \$ 3.19 | 6.6 | 0.0 | 0.0 | 6.6 |
| DEXTER AVE N & HARRISON ST | Seattle | Off-street trails / Cycletracks | \$ 16.71 | 6.5 | 0.0 | 0.0 | 6.5 |
| AURORA AVE N & N 85TH ST | Seattle | Off-street trails / Cycletracks | \$ 5.70 | 6.5 | 0.0 | 0.0 | 6.5 |
| E UNION ST & BROADWAY | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 4.4 | 0.0 | 2.0 | 6.5 |
| DEXTER AVE N & MERCER ST | Seattle | Off-street trails / Cycletracks | \$ 15.49 | 6.4 | 0.0 | 0.0 | 6.5 |
| 15TH AVE NW & NW MARKET ST | Seattle | Off-street trails / Cycletracks | \$ 4.33 | 6.0 | 0.1 | 0.3 | 6.4 |
| WESTLAKE AVE N & HARRISON ST | Seattle | Off-street trails / Cycletracks | \$ 18.06 | 6.2 | 0.1 | 0.0 | 6.3 |
| E ROY ST & BROADWAY E | Seattle | Off-street trails / Cycletracks | \$ 10.99 | 6.2 | 0.0 | 0.0 | 6.2 |
| E MADISON ST & 17TH AVE | Seattle | Off-street trails / Cycletracks | \$ 3.11 | 5.2 | 0.1 | 1.0 | 6.2 |
| AURORA AVE N & PROSPECT ST | Seattle | Off-street trails / Cycletracks | \$ 13.97 | 6.2 | 0.0 | 0.0 | 6.2 |

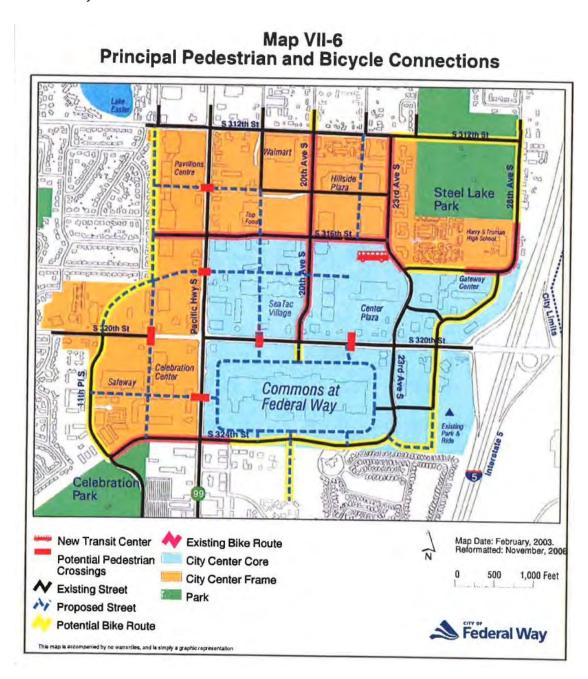


| Stop Location | Area | Project Type | Estimated Cost (\$millions) | Demo./ Pop/Emp Change Score | Pct. Change Ridership Score | Cost per Rider Score | Aggregate Score |
|-----------------------------|---------|----------------------------------|-----------------------------------|--------------------------------------|--------------------------------------|----------------------------|--------------------|
| 3RD AVE & VINE ST | Seattle | Off-street trails / Cycletracks | \$ 15.44 | 5.5 | 0.2 | 0.3 | 6.0 |
| FAIRVIEW AVE E & YALE AVE N | Seattle | Bike Lanes | \$ 0.36 | 5.6 | 0.0 | 0.3 | 5.9 |
| FAIRVIEW AVE N & VALLEY ST | Seattle | Off-street trails / Cycletracks | \$ 14.73 | 5.7 | 0.1 | 0.1 | 5.8 |
| FAIRVIEW AVE E & YALE AVE N | Seattle | Greenways / Signalized Crossings | \$ 0.50 | 5.6 | 0.0 | 0.1 | 5.7 |
| FAIRVIEW AVE E & YALE AVE N | Seattle | Off-street trails / Cycletracks | \$ 14.87 | 5.6 | 0.0 | 0.0 | 5.6 |
| AURORA AVE N & N 91ST ST | Seattle | Off-street trails / Cycletracks | \$ 6.10 | 5.1 | 0.0 | 0.0 | 5.1 |



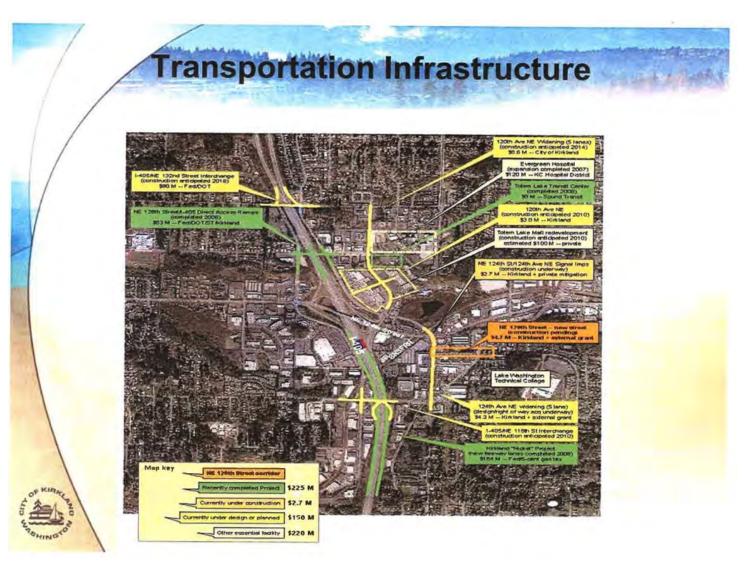
APPENDIX F. EXAMPLE PLANS FOR FUTURE PROJECTS

Federal Way Transit Center





Totem Lake Transit Center





Aurora Square

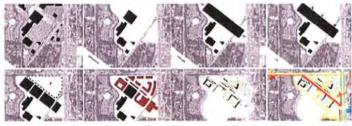
MASTER PLANNING

Aurora Square is home to many outstanding businesses, but due to the absence of cohesive planning to guide investment, the center provides little synergy. In order to create an effective Renewal Plan, the City of Shoreline conducted a master planning effort that identified ten projects for renewal, which are further explained in the pages to follow.

The ten renewal projects provide a dynamic and flexible framework for guiding public-private partnership projects by allowing individual property owners to understand and invest in the "big picture" without control of other properties. The projects aren't about specific buildings or uses as much as about infrastructure, connectivity, jobs, and attracting people. The renewal projects help the CRA become more economically healthy for the property owners, tenants, and community while providing significant public benefit.

The City of Shoreline seeks renewal at Aurora Square by mobilizing its resources to improve the existing infrastructure; we believe this to be both environmentally responsible and honoring of the investment already made. That is why the master planning suggests such projects as repurposing the Sears building, increasing land use efficiency, enhancing the "on-ground" experience, and providing solutions to stubborn design and connectivity problems.

The City's role will be complete when the obstacles for typical investment are overcome and significant investment is attracted. The City is attempting to be the catalyst that starts the boulder of private enterprise rolling down the hill toward a wonderful outcome.



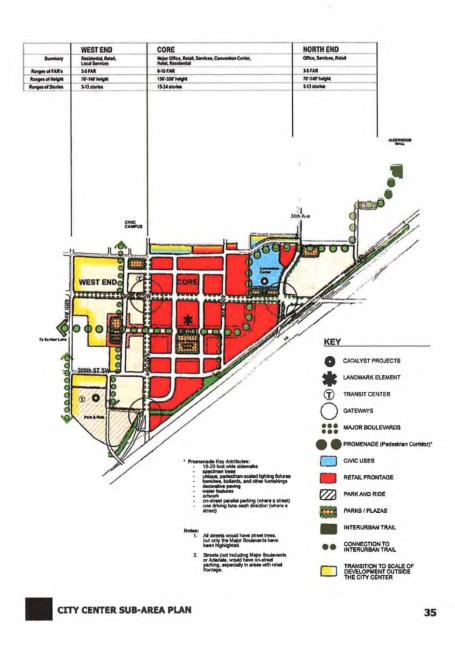


INCREASE LAND EFFICIENCY



Lynnwood Subarea Plan







Tukwila Urban Center

Southcenter Subarea Plan

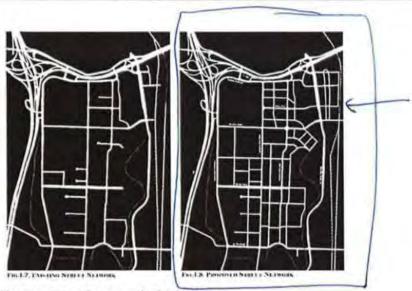


Figure 1.3 Southcenter Block Patterns

Strander Boulevard will continue to be the most well-traveled east-west thoroughfare and the gateway for many visitors to the Regional Center, Pond District and TOD Neighborhood. Ultimately, Strander Boulevard will be extended eastward to provide a new through street to Renton. This extension will pass underneath the railroad lines and provide direct access to the Tukwila Longacres/Amtrak sStation from both Tukwila and Renton. Of the several north-south arterials, Andover Park West provides the most direct connection to and through the Regional Center, the new Pond District, and the new Southcenter Tukwila Transit Center.

3) Transit: Integrated with Urban Center Development

As the region continues to grow, gas prices increase, and the demand surges for increasingly compact, walkable and mixed use formats, a wide range of mobility options, especially rail transit, will become critical components for economic success, livability and sustainability. These trends will favor the areas of Southcenter within walking distance of the-Tukwila Longacres/Amtrak sStation and Southcenter Transit Center, which can be expected to capture an increasing share of regional demand for housing and office development.

In order to realize the full potential of these transit facilities, existing barriers to visibility, access and convenience will be removed. Development within walking distance of transit stations will provide much enhanced connectivity to and from transit facilities as they contribute to improvements that incrementally add to the network of walkable, safe, and complete street environments — and in turn, the new transit oriented development will promote system ridership.

Subarea Plan PCDraftUpdated.docxSubarea Plan_PCDraft.doex 03/24/201410.25.12



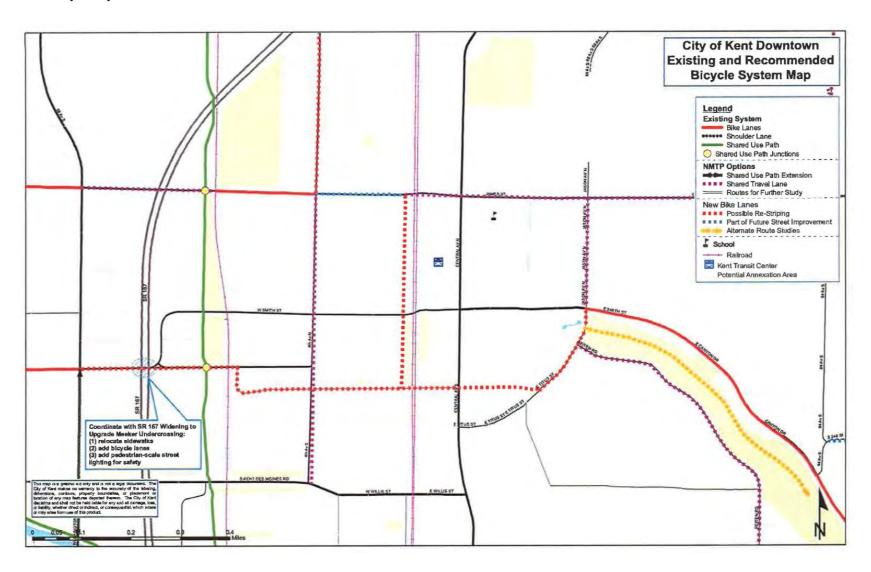
Overlake Village





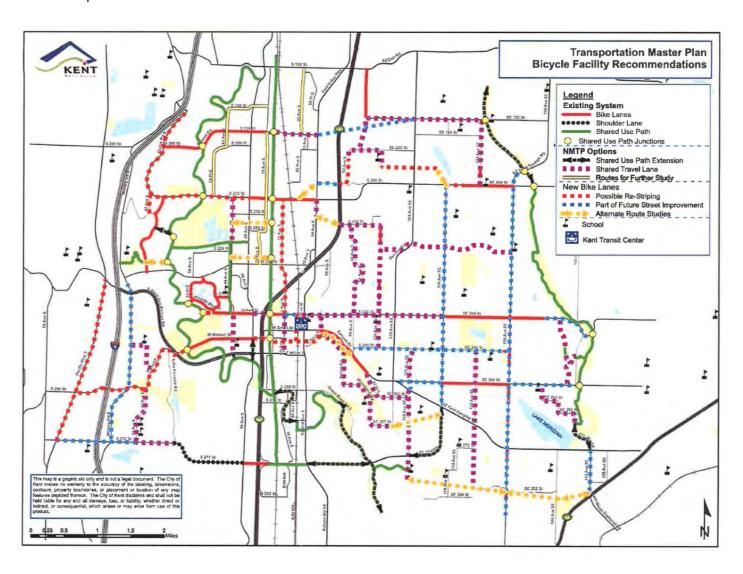


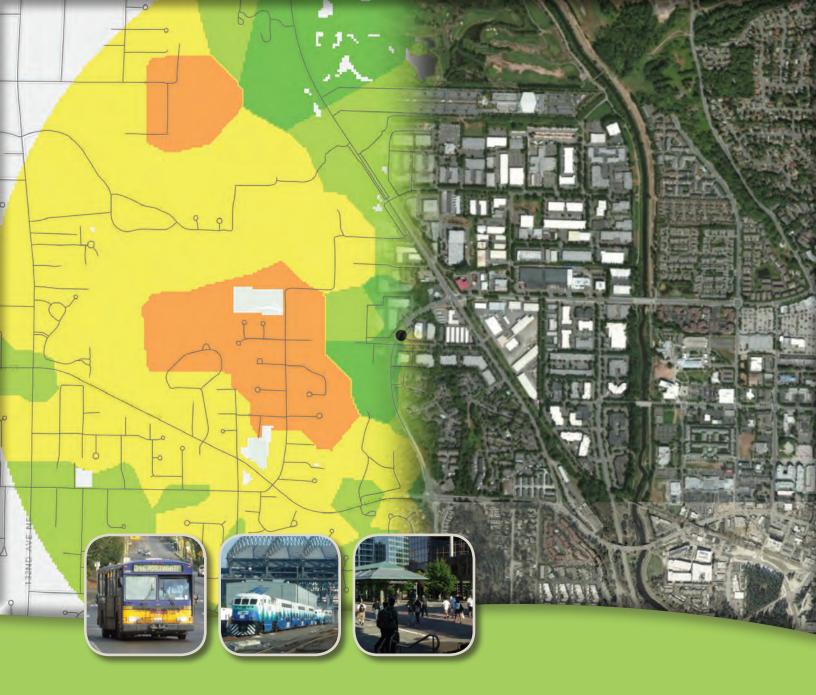
Kent Bicycle System Plan





Kent Transportation Master Plan





Submitted by:

FEHR PEERS

Fehr & Peers 1001 4th Avenue Suite 4120 Seattle, WA 98154

