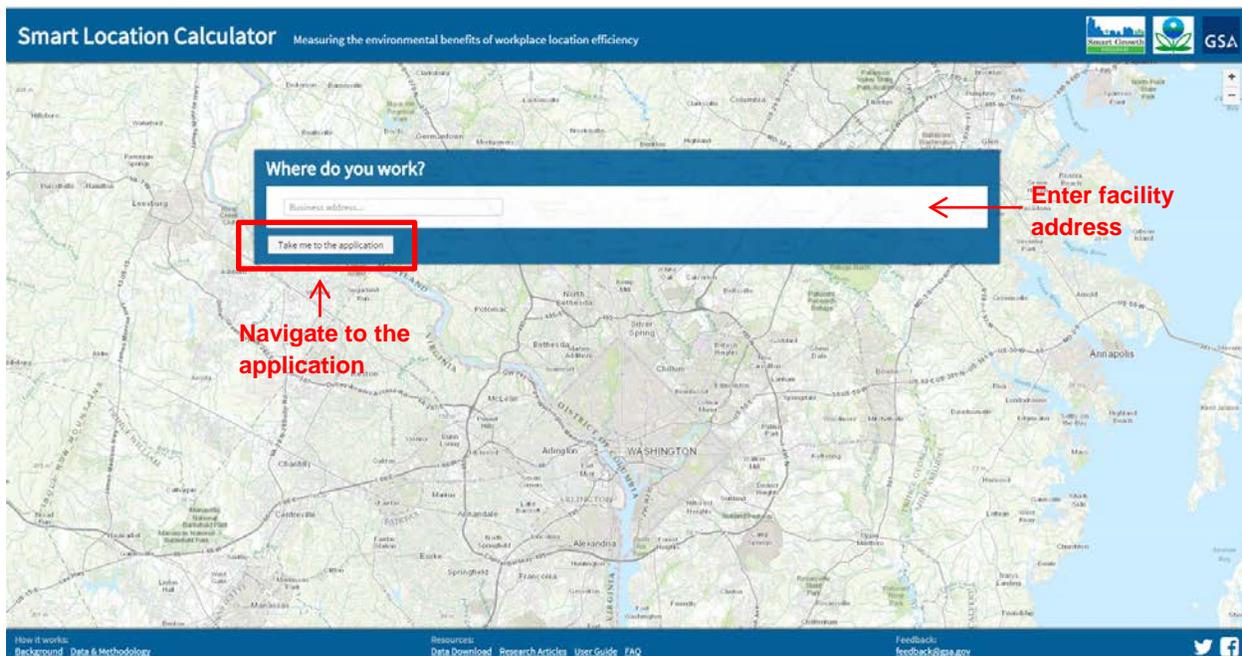


Smart Location Calculator: User Training Guide

12.09.2015

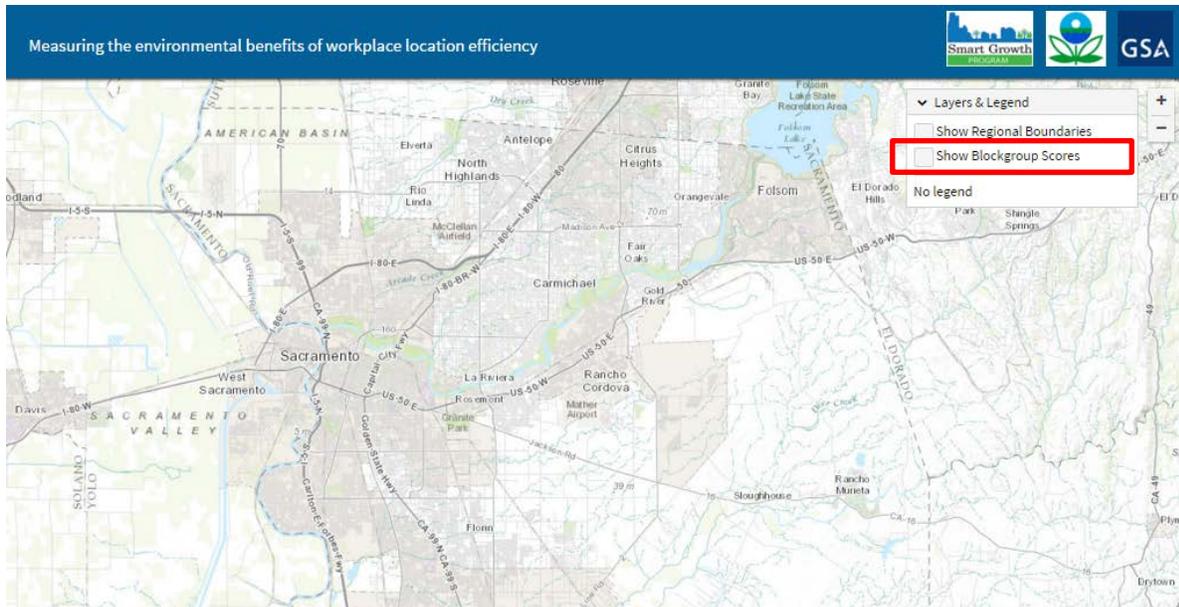
The Smart Location Calculator provides a way to estimate average employee commute vehicle miles traveled (VMT) and associated greenhouse gas emissions (GHG) by workplace location. It provides an easy way to compare the relative location efficiency of work sites across a given metro region and inform the process of facility site selection.

After opening the SLC page, you can either navigate straight to the application, or search a specific facility address.



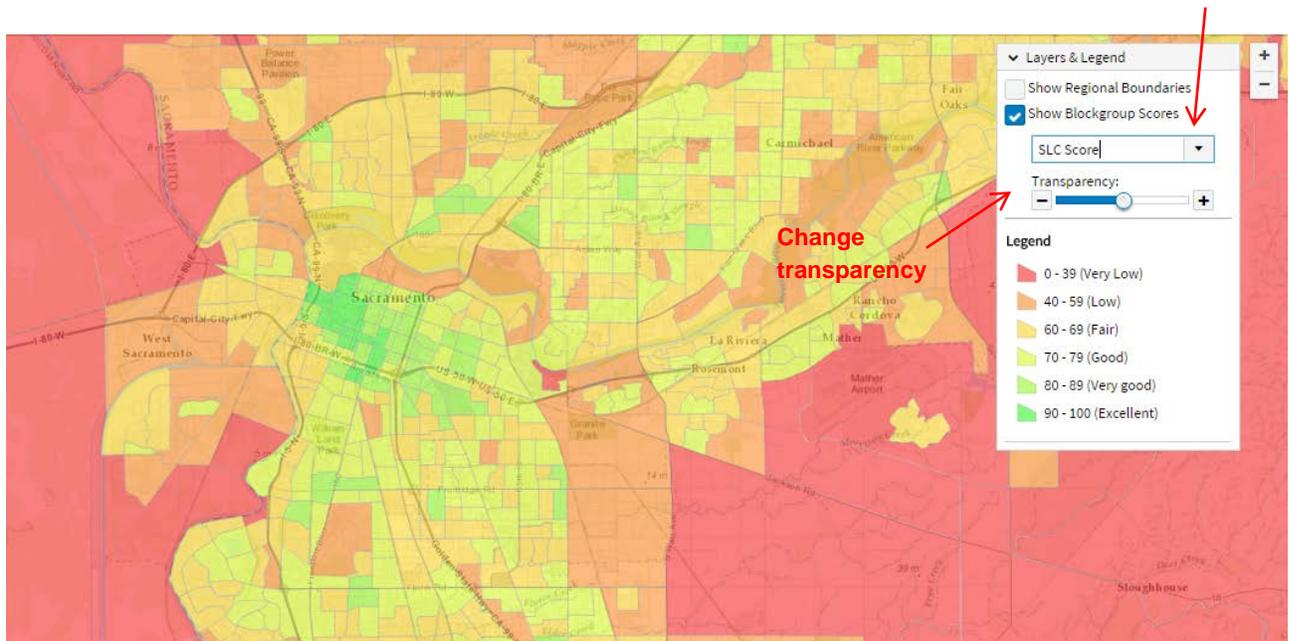
1) Explore Block Group Scores in the Application

Navigate to Sacramento in the application then check the box next to *Show Blockgroup Scores*.

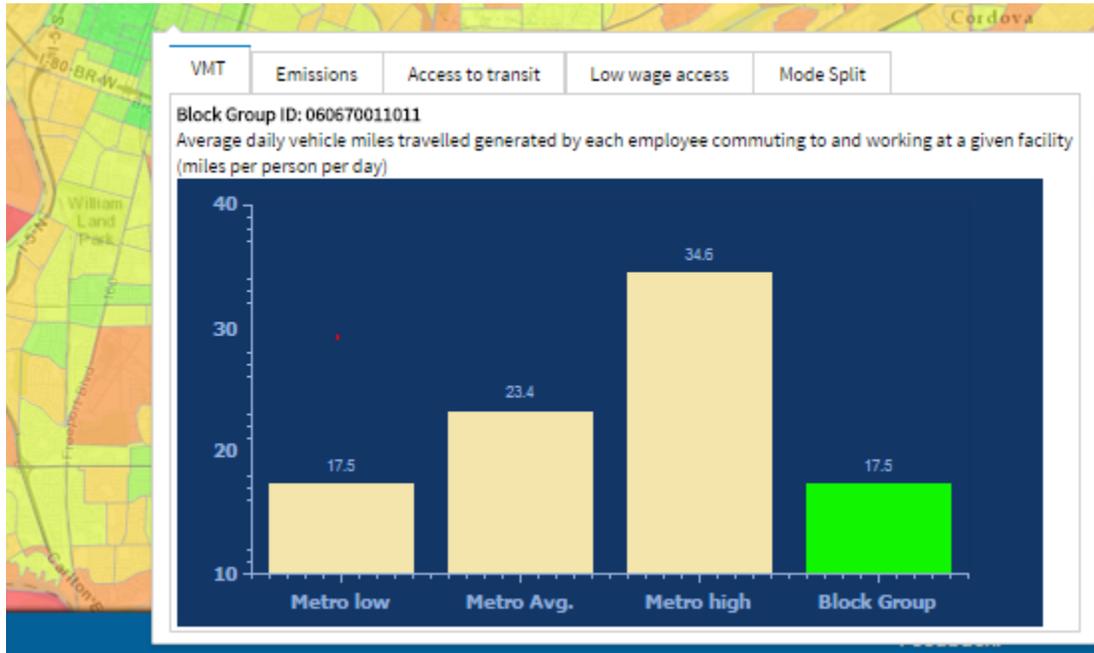


The colors display the Smart Location scores, from 0-100, of each block group. You can adjust the transparency of the chloropleth map, or change the display to show the percent of commuters that drive alone to each block group using the *Layers and Legend* window.

Click to see drive alone mode split



Click on any block group to display statistics about each block group (discussed in more detail in section 5 below).



2) Query a specific address

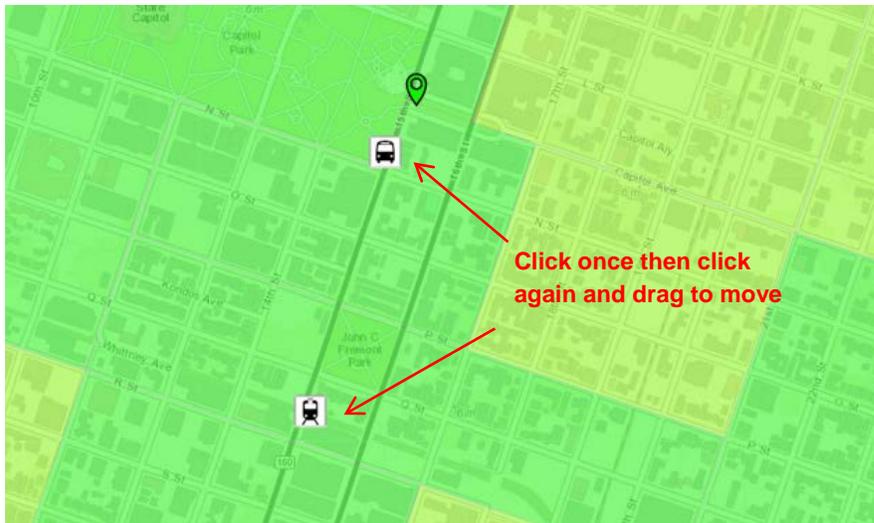
In the search bar, by searching for the following address: *1501 Capitol Ave, Sacramento*

The tool will suggest completed addresses as you type. Select the correct address to run the search.

The SLC provides a score from 0-100 for both the facility (in this case 65) and the block group in which the facility is located (in this case 71). Comparing these two scores tells users that this particular facility performs a little lower than the block group overall.

3) Adjusting distance to transit

The SLC includes pre-loaded GTFS transit data and automatically identifies the nearest rail transit station or bus stop within 0.75 miles of the facility. Distances (along the street network, not a straight line) from the facility to the transit station/stop will appear in the query window. If you wish to change the locations of the transit, click on the transit station/stop icon once, then click again and drag to move it.



Click once then click again and drag to move

Users can also choose to calculate scores based on the average distance to transit for the facility's block group, rather than a specific network distance. The SLC will automatically use average block group distance to transit values if it cannot find a transit stop or station within 0.75 miles of the facility address. If you know of a nearby transit stop that is not automatically appearing in the SLC, simply uncheck the box next to *Use average block group distance to transit values* and input the distances manually.

1501 Capitol Ave, Sacramento, California, USA

Employees: 100
 Male: 50 %
 Update

1501 Capitol Ave
 Sacramento, California 95814 Export

92 Smart Location Index
 100 Block Group SLC
 More scores

Distance to nearest transit stop: 0.24 miles
 Distance to rail transit: 0.38 miles
 or move pointers on the map

Use average block group distance to transit values
 Existed in 2010
 Occupied in 2010
 Re-calculate Score

Show statistics

Change distances manually

Use block group average for distance to transit

4) Adding additional addresses

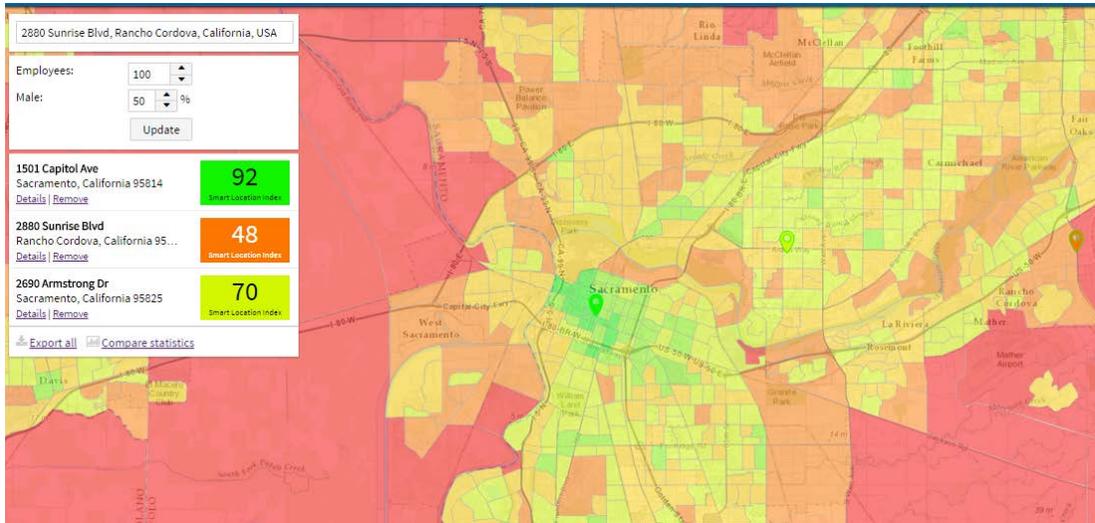
Now add a second facility location by typing the address *2880 Sunrise Boulevard, Rancho Cordova* directly into the search bar in the query window.

The screenshot shows a search interface with a search bar containing the address "2880 Sunrise Blvd, Rancho Cordova, California, USA". Below the search bar are input fields for "Employees" (100) and "Male" (50%), with an "Update" button. A "Show all locations (2)" button is highlighted with a red arrow and the text "Click here to expand the results and compare scores". Below this button, the details for the selected location are shown: "2880 Sunrise Blvd, Rancho Cordova, California 95742". It displays two scores: "48 Smart Location Index" and "59 Block Group SLI", with a "More scores" link. Below the scores are fields for "Distance to nearest transit stop" (0.47 miles) and "Distance to rail transit" (0.73 miles). There are also checkboxes for "Use average block group distance to transit values", "Existed in 2010", and "Occupied in 2010", along with a "Re-calculate Score" button and a "Show statistics" link.

Clicking on *Show all locations* will allow you to compare facility and block group scores for all your queries.

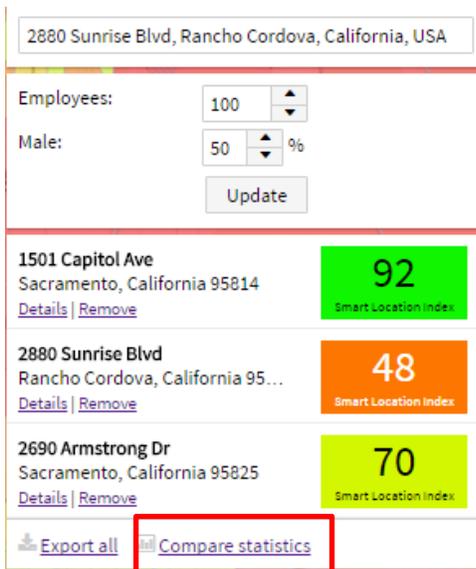
The screenshot shows a map interface with a search bar containing the address "2880 Sunrise Blvd, Rancho Cordova, California, USA". Below the search bar are input fields for "Employees" (100) and "Male" (50%), with an "Update" button. Below the input fields, two locations are listed for comparison: "1501 Capitol Ave, Sacramento, California 95814" with a score of "92" (Smart Location Index) and "2880 Sunrise Blvd, Rancho Cordova, California 95742" with a score of "48" (Smart Location Index). Below the list are buttons for "Export all" and "Compare statistics". The map shows the Sacramento area with various colored regions and labels for "Sacramento", "West Sacramento", "La Riviera", "Rancho Cordova", and "Mather Airport".

You can also add locations by simply right clicking on the map and selecting *Add new location here*. The SLC will reverse geocode the point and determine its address, then add it to your list of queried facilities.



5) Other Statistics

Click on the link *Compare statistics* at the bottom of the query window.



The graphs that appear allow you to compare characteristics (e.g. VMT, GHG emissions, access to transit, etc) about facility location with those of the facility's block group, as well as with the average, highest and lowest performance of block groups in the metropolitan region.



Scroll to view statistics for other facility addresses

6) Recalculating Employment

The query window allows users to change a few of the default assumptions in the SLC. Data for block group employment density comes from the 2010 Census. If the facility did not exist, or was not occupied, in 2010, the value for employment density is recalculated based on user inputs for numbers of employees and workforce composition.

Be sure to click on *Re-calculate Score* to update your results.

Update if facility was not occupied in 2010

Adjust as appropriate based on workforce characteristics

Uncheck for facilities that did not exist or were not occupied in 2010

7) Export Data

The *Export All* link allows you to export the data for each facility that was used to calculate the final scores.

Employees:
Male:

1501 Capitol Ave Sacramento, California 95814 Details Remove	92 Smart Location Index
2880 Sunrise Blvd Rancho Cordova, California 95... Details Remove	48 Smart Location Index
2690 Armstrong Dr Sacramento, California 95825 Details Remove	70 Smart Location Index

8) Practice

Continue exploring the SLC on your own. Below is a list of state and federal facility addresses to try out if you need some suggestions.

- 1) 4328 Watt Avenue, North Highlands
- 2) 6501 Sylvan Road, Citrus Heights
- 3) 8581 Folsom Boulevard, Sacramento
- 4) 910 Cirby Way, Roseville
- 5) 3321 Cameron Park Drive, Cameron Park
- 6) 1655 Shop Street, South Lake Tahoe
- 7) 5209 North Avenue, Carmichael
- 8) 700 North 10th Street, Sacramento
- 9) 1077 Civic Center Boulevard, Yuba City
- 10) 505 Pole Line Road, Davis
- 11) 2218 Kausen Drive, Elk Grove
- 12) 10989 Trade center Road, Rancho Cordova