

Analysis Results

Analysis was run by Willem on DATE

Introduction

This is a report generated by the TransitCenter Equity Scenario Comparison Application (TESCA), which conducts a comparative analysis of access to opportunities across different population groups in a specified region.

This analysis studies the changes in access resulting from a proposed network update from SEPTA. A proposed new transit network was provided by SEPTA, and the impact area over which results are summarized by population group consists of all population living within 1/2 mile of a transit stop.

We use two types of measures:

- **Cumulative measures**, which sum the total number of a given destination or opportunity reachable in a specified timeframe. With this metric, **higher is typically better**. When viewing these measures, the accompanying parameter indicates the maximum travel time within which a destination is considered reachable. For example, a parameter of 45 indicates that the measure counts all destinations within 45 minutes as reachable.
- **Travel time measures**, which measure how long it takes to reach the nth (e.g. 1st, 3rd, etc) closest destination. With this metric, **lower is typically better**. When viewing these measures, the accompanying parameter indicates which nth closest destination was used. For example, a parameter of '2' indicates that the measure counts the travel time to the 2nd closest destination.

Analysis Details

This analysis compares the following two scenarios:

1. **Business as Usual**: This is a discussion about the first scenario. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

The analysis was run at 2023-03-29 07:00:00 and results are averaged over trips made in the subsequent 120 minutes. All modes of transit were considered in addition to walking.

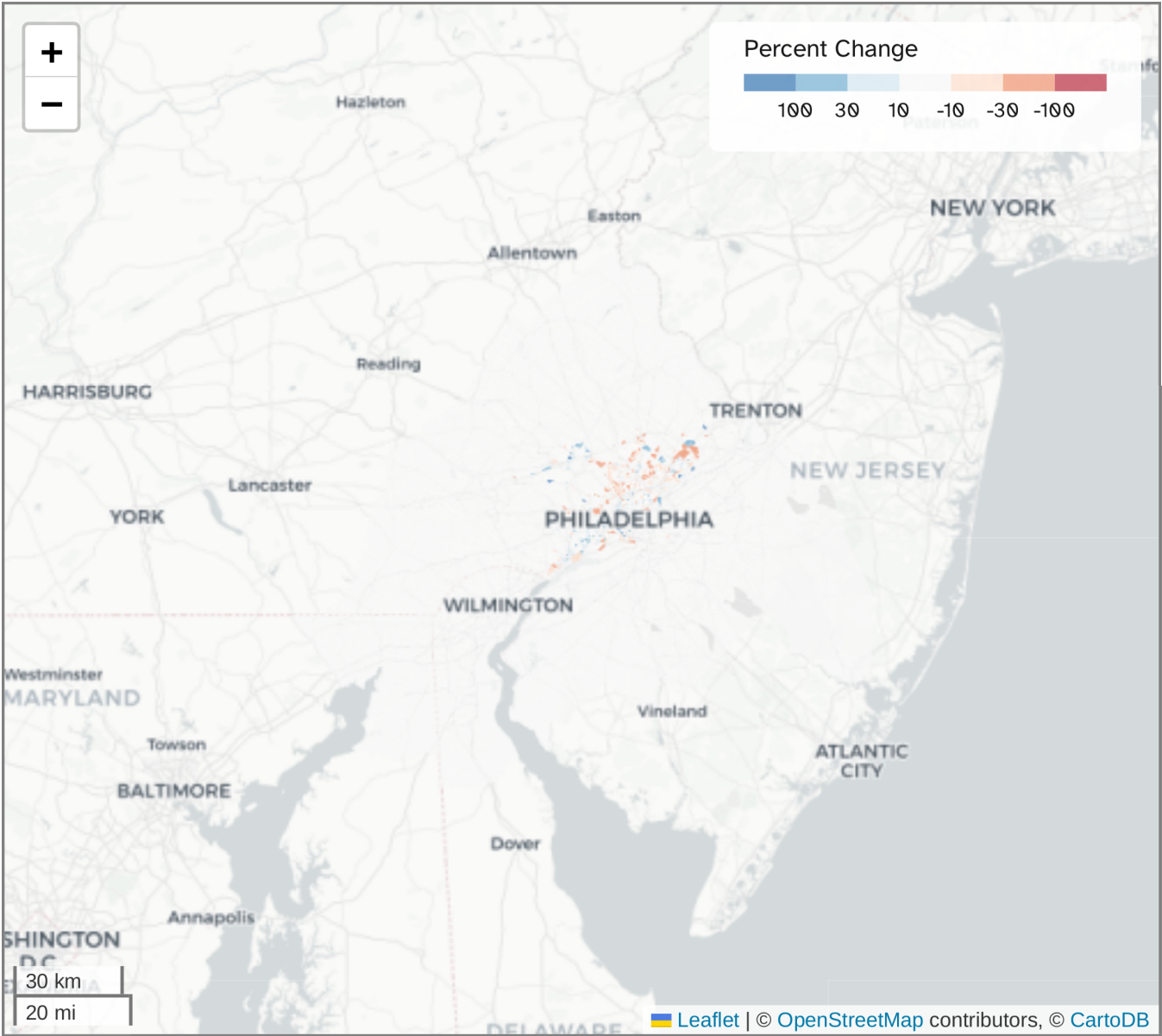
2. **SEPTA Proposed Redesign**: This is a discussion about the second scenario. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint

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The analysis was run at 2023-03-29 07:00:00 and results are averaged over trips made in the subsequent 120 minutes. In addition to walking, the following modes of transit were considered: subway, funicular.

Summary Map

Access to Employment (30 minutes)



Scenario Comparisons

In this section, we compare the two scenarios analyzed.

Employment

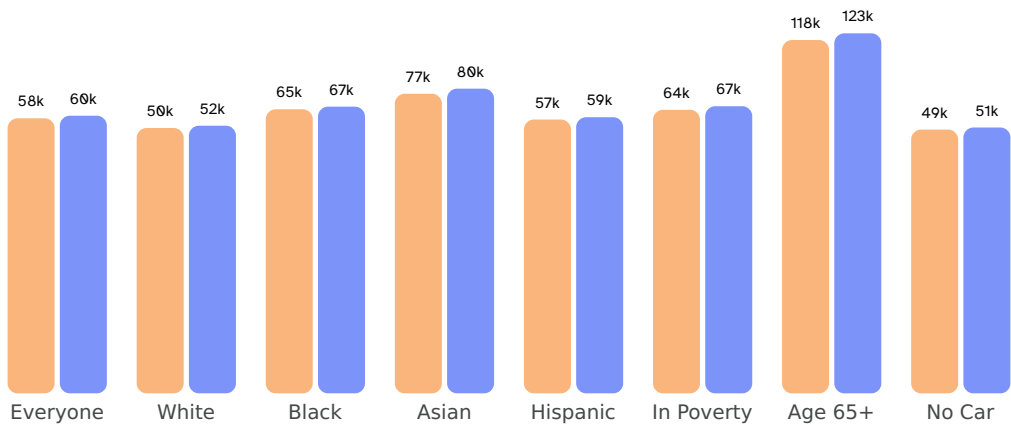
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Here are the weighted average results of access to employment compared across various demographic groups. Keep in mind that this is a cumulative measure, where **higher** values are typically better.

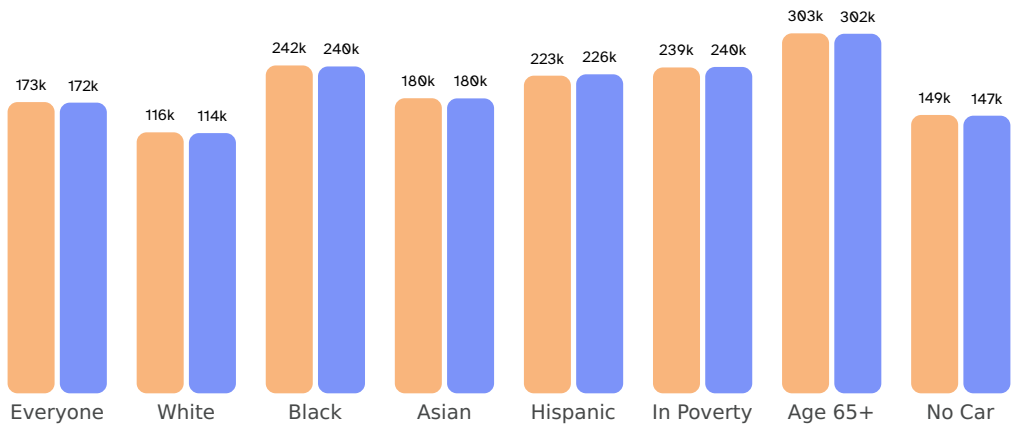
Access to Employment
Average total jobs reachable in 30 minutes on transit

Business as Usual
SEPTA Proposed Redesign



Access to Employment
Average total jobs reachable in 45 minutes on transit

Business as Usual
SEPTA Proposed Redesign



Commercial Corridor Area

This is discussion about the corridor area opportunity. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia

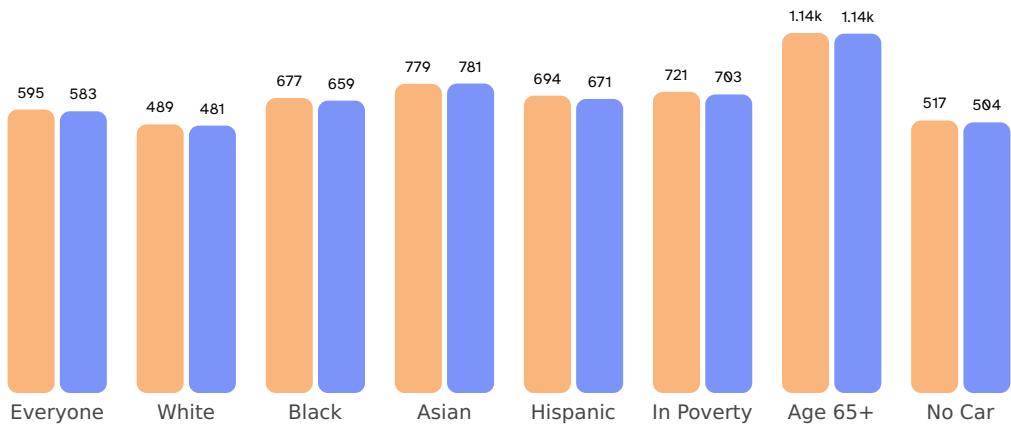
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Here are the weighted average results of access to commercial corridor area compared across various demographic groups. Keep in mind that this is a cumulative measure, where **higher** values are typically better.

Access to Commercial Corridor Area

Average total acres reachable in 30 minutes on transit

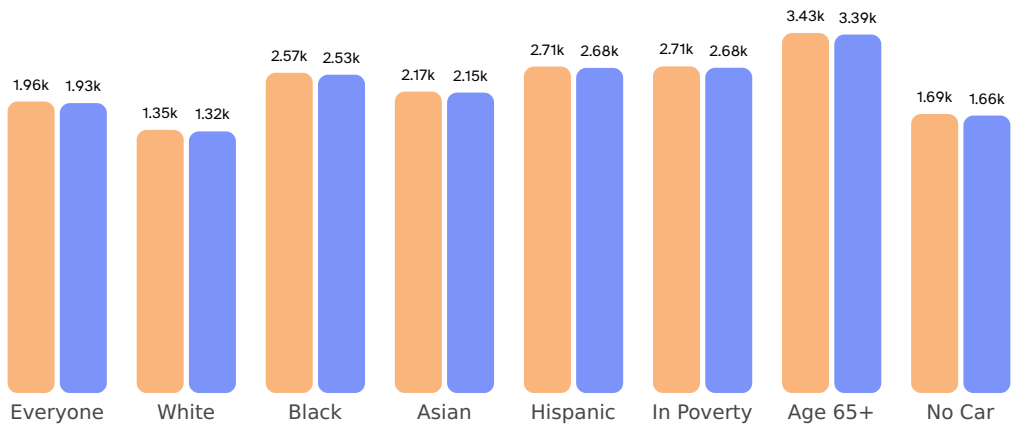
- Business as Usual
- SEPTA Proposed Redesign



Access to Commercial Corridor Area

Average total acres reachable in 45 minutes on transit

- Business as Usual
- SEPTA Proposed Redesign



Hospitals

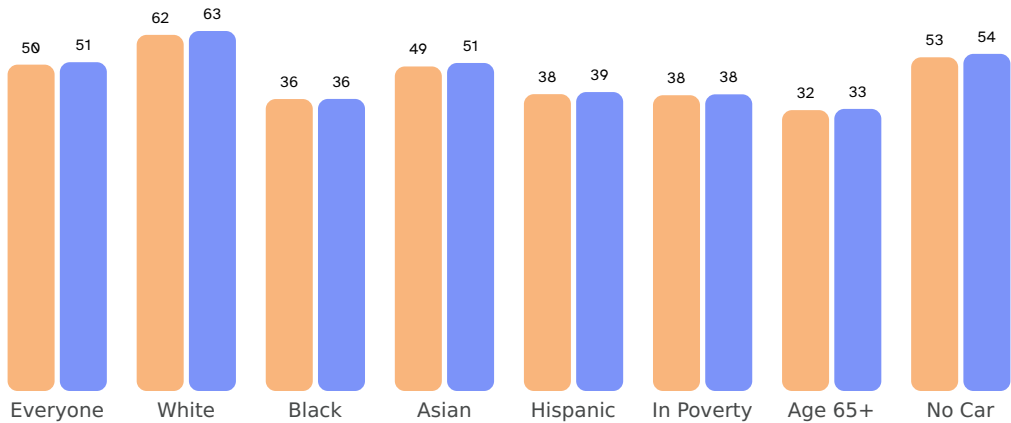
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Here are the results of access to hospitals compared across various demographic groups. Keep in mind that this is a travel time measure, where **lower** values are typically better.

Access to Hospitals

Average minutes of travel time to reach the nearest 1 hospitals

- Business as Usual
- SEPTA Proposed Redesign



Rental Units

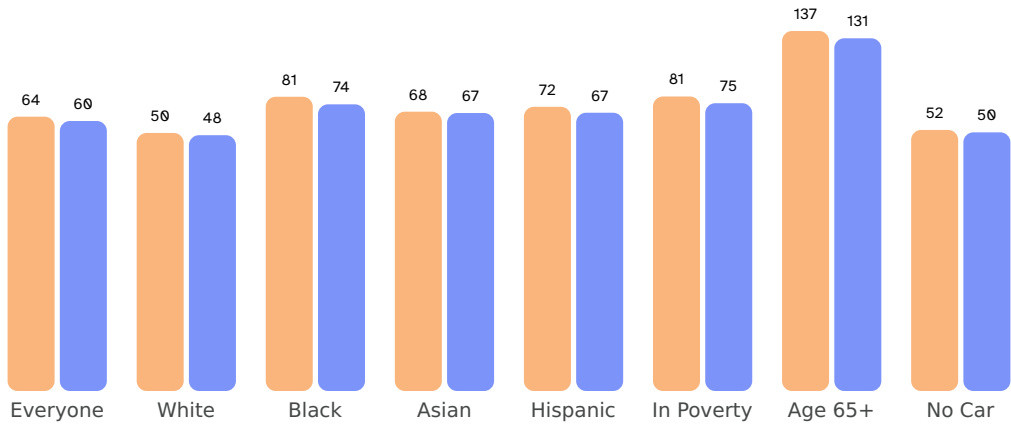
This is discussion about the rental units opportunity. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Here are the weighted average results of access to rental units compared across various demographic groups. Keep in mind that this is a cumulative measure, where **higher** values are typically better.

Access to Rental Units

Average total units reachable in 15 minutes on transit

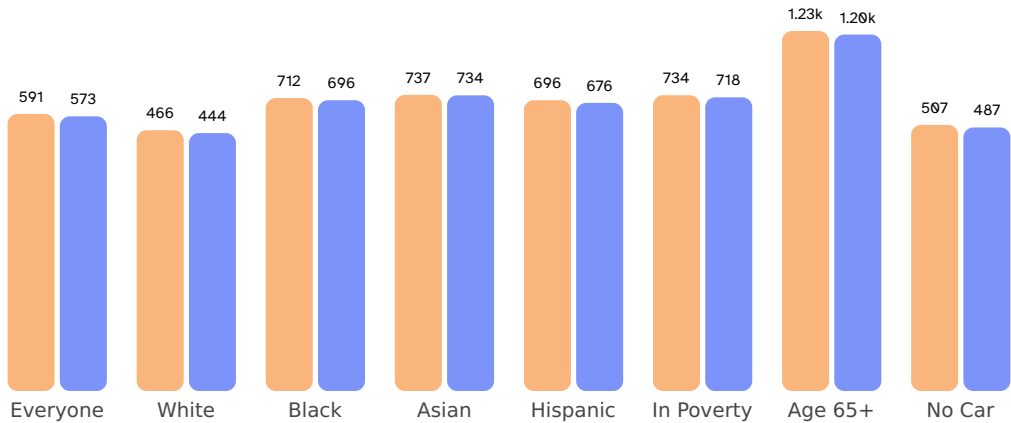
- Business as Usual
- SEPTA Proposed Redesign



Access to Rental Units

Average total units reachable in 30 minutes on transit

- Business as Usual
- SEPTA Proposed Redesign



Supermarkets

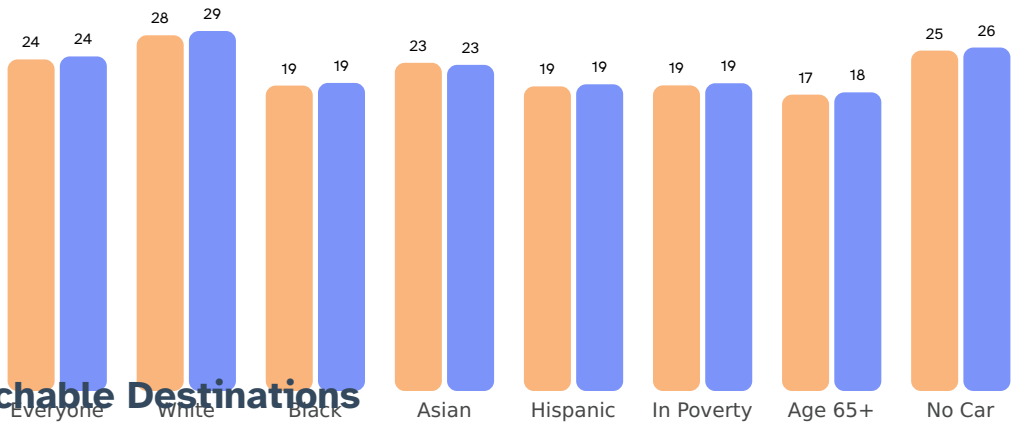
This is discussion about the supermarkets opportunity. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Here are the results of access to supermarkets compared across various demographic groups. Keep in mind that this is a travel time measure, where **lower** values are typically better.

Access to Supermarkets

Average minutes of travel time to reach the nearest 1 supermarkets

Business as Usual
SEPTA Proposed Redesign



Unreachable Destinations

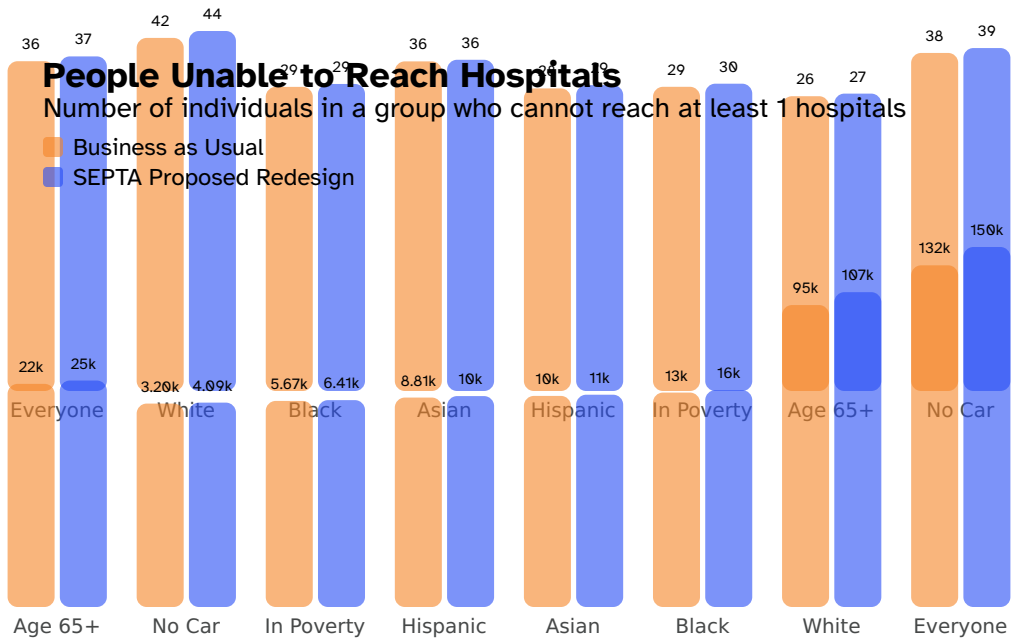
Unreachable destinations are those which cannot be reached in the specified maximum travel time of 2 hours. For travel time measures, a value of 180 minutes was used for locations with excessive travel times. Here we plot for each destination the number of people in each demographic group who cannot reach any of a specified destination.

Access to Supermarkets

Average minutes of travel time to reach the nearest 3 supermarkets

Business as Usual
SEPTA Proposed Redesign

Hospitals



People Unable to Reach Hospitals

Number of individuals in a group who cannot reach at least 1 hospitals

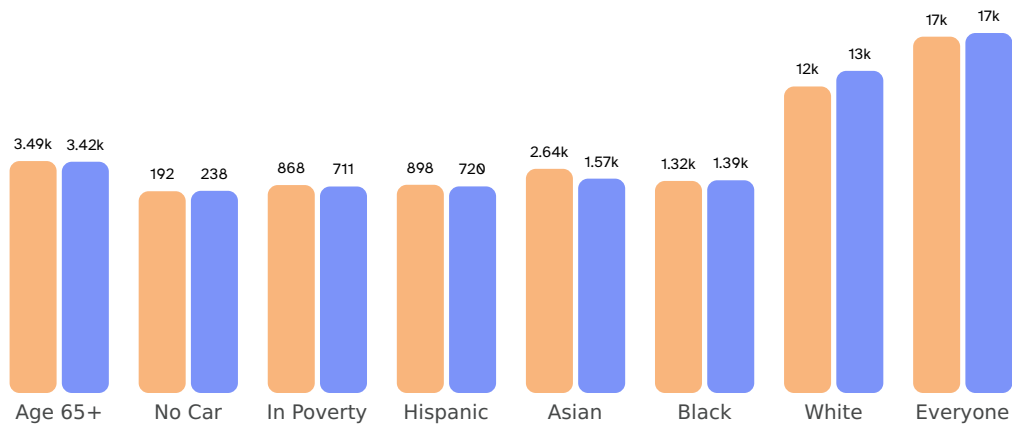
Business as Usual
SEPTA Proposed Redesign

Supermarkets

People Unable to Reach Supermarkets

Number of individuals in a group who cannot reach at least 1 supermarkets

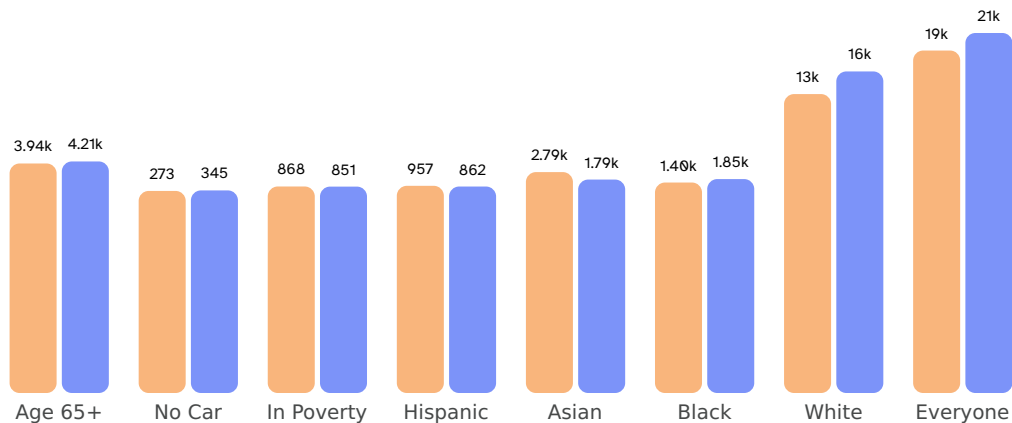
Business as Usual
SEPTA Proposed Redesign



People Unable to Reach Supermarkets

Number of individuals in a group who cannot reach at least 3 supermarkets

Business as Usual
SEPTA Proposed Redesign



Notes

Things that could go here:

- Any relevant papers or documentation?
- Detailed methodology outline?
- Other specific things to note