

# **MOD: A More User Friendly and Profitable TOD**



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# TOD Introduction

- **Transit Oriented Development**
- **Gaining in Popularity**
- **Limitations:**
  - **~1/4 to 1/2 mile walking radius**
  - **TODs typically considered too small to include grocery store**
  - **TOD residents in suburbs typically still need to own a car**



# TOD Motivation

- **From Center for TOD** (<http://www.ctod.org/tod205.php>)

Abby Thorne-Lyman, CTOD Director. "TOD projects often cater to young professionals and empty-nesters without young children. But **households with children also have an interest in living near transit**. However, these families tend to look for a different set of amenities, and **access to high-quality education** is one of the most important factors they consider

Jeff Vincent, Deputy Director of the Center for Cities & Schools. "Done in tandem with school sites and school districts, TOD planning can support high-quality educational opportunities and the other amenities that matter to families, like parks and libraries, safe streets for walking and biking, and **access to grocery stores and daycares.**"

# TOD Questions

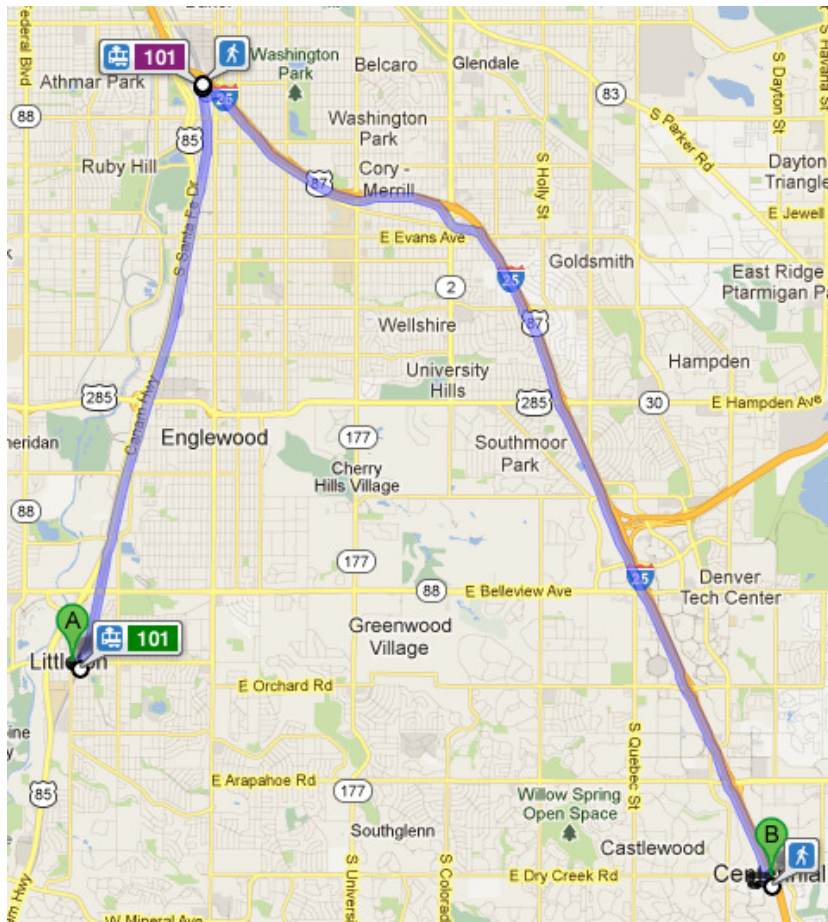
- **How many residences, businesses, schools, recreation, etc. can fit in a ¼ mile radius?**
- **Do TODs really support live, work, play?**
- **How big would a TOD need to be so that residents can live, work, play within all the TODs without owning a car?**

# **TOD Case Study: Littleton**

**Illustrating Inadequacy of Current Light Rail and TODs**

- **Case Example: How to use get from Littleton to IKEA in Centennial?**

# Littleton → IKEA: Light Rail

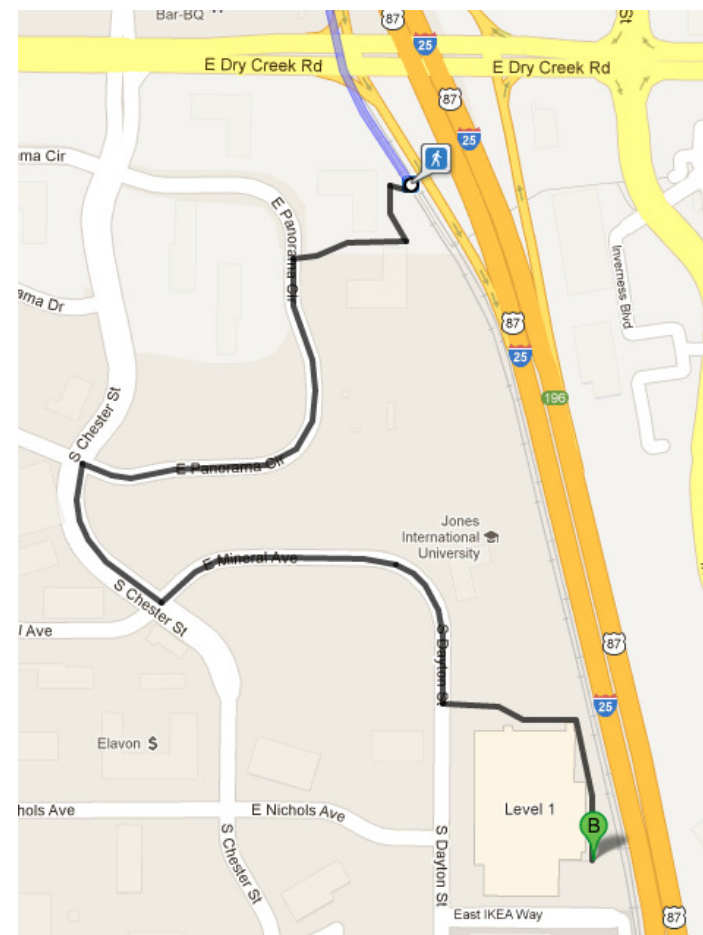


Cost: \$8 Light Rail

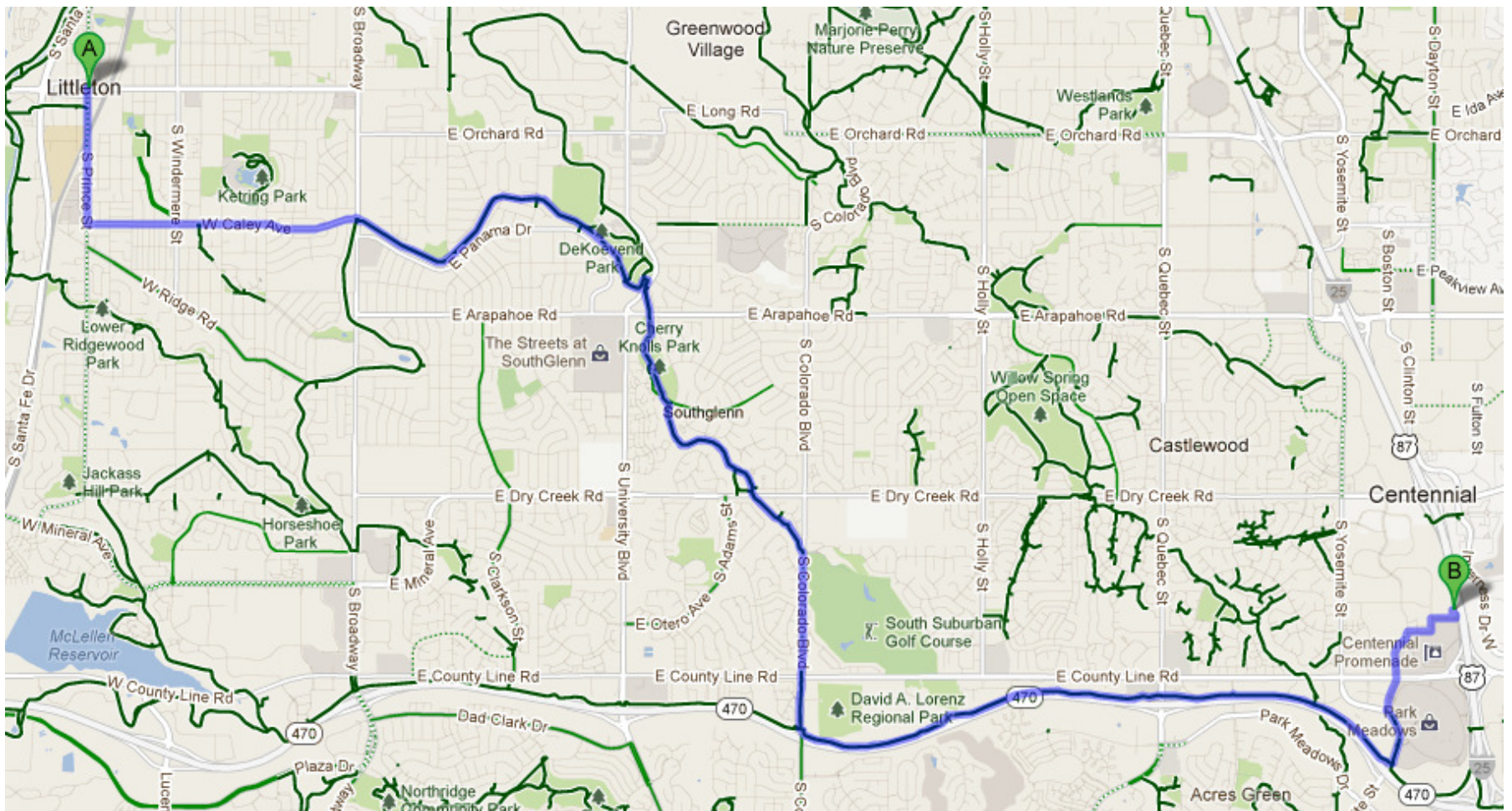
+

1.2 mile walk

Total: 1 hr. 15 min



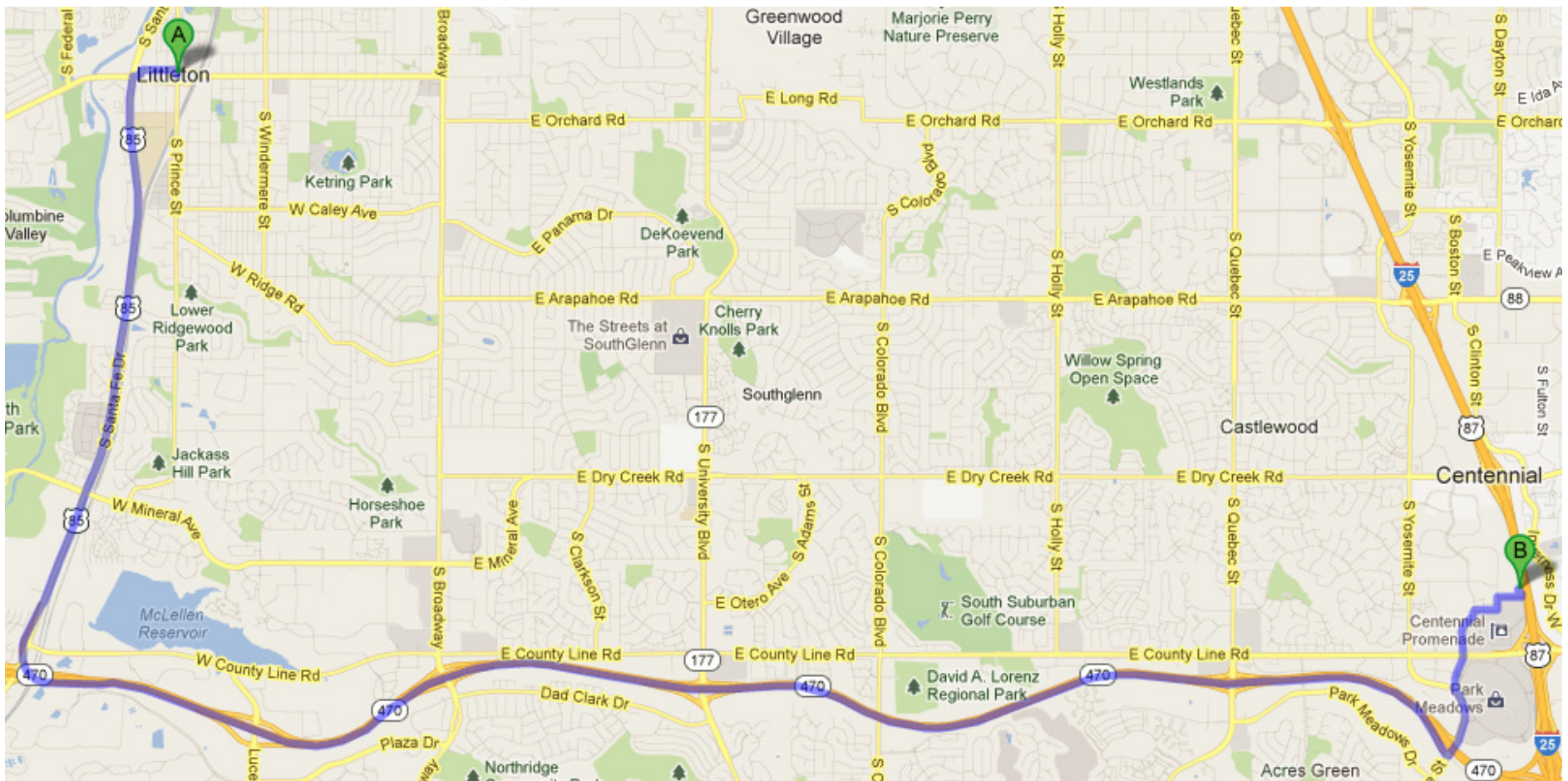
# Littleton → IKEA: Bike



12.1 miles, 1 hr 15 min.

Not sure if all roads are bike safe

# Littleton → IKEA: Car



13.6 miles, 21 min.

Roundtrip Cost ~ 1 gallon gas (\$3.50 - \$4.00)



# **MOD**

## **Mobility Oriented District**

- **Goal: Live, Work, Play comfortably without a owning a car**
- **MOD = TOD with secondary transportation options**
- **Increase “TOD radius”**
- **Use Light Rail for regional travel**
- **Use secondary transportation for local travel around light rail stations**
- **Link fares for light rail and secondary options so as to keep affordable for families**

# Example Secondary Transportation Options

- **Bike Sharing/Rental Stations**



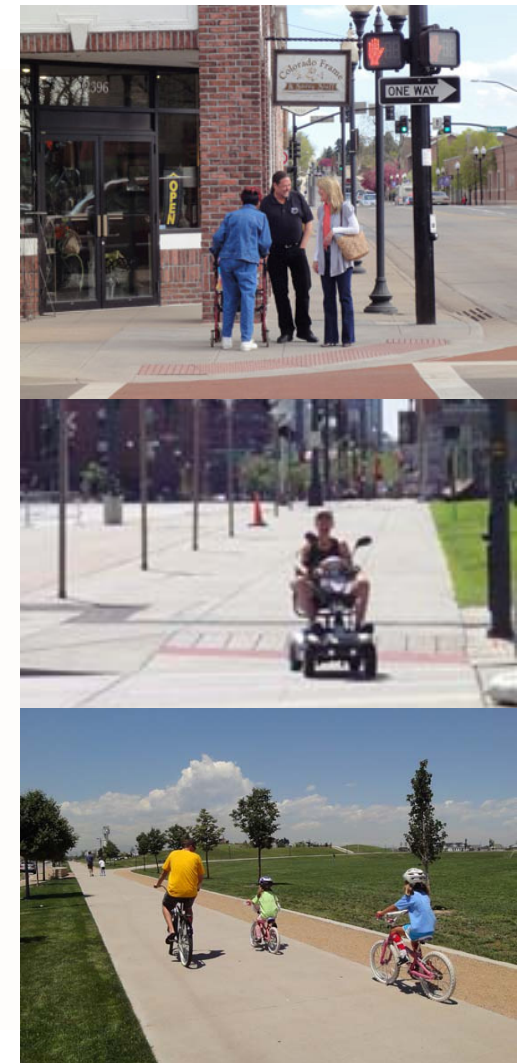
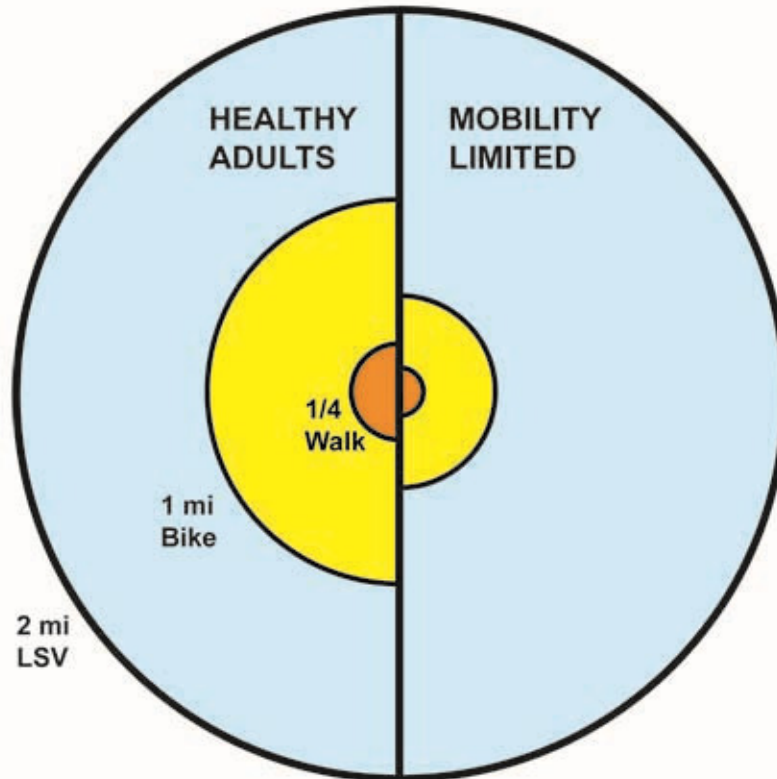
- **LSV (Low Speed Vehicle) Sharing/Rental Stations**
  - **Legal on Roads with Speed Limits  $\leq 35$  MPH**



# Mobility Diagram



MOBILITY DIAGRAM  
5 MINUTE TRAVEL TIME



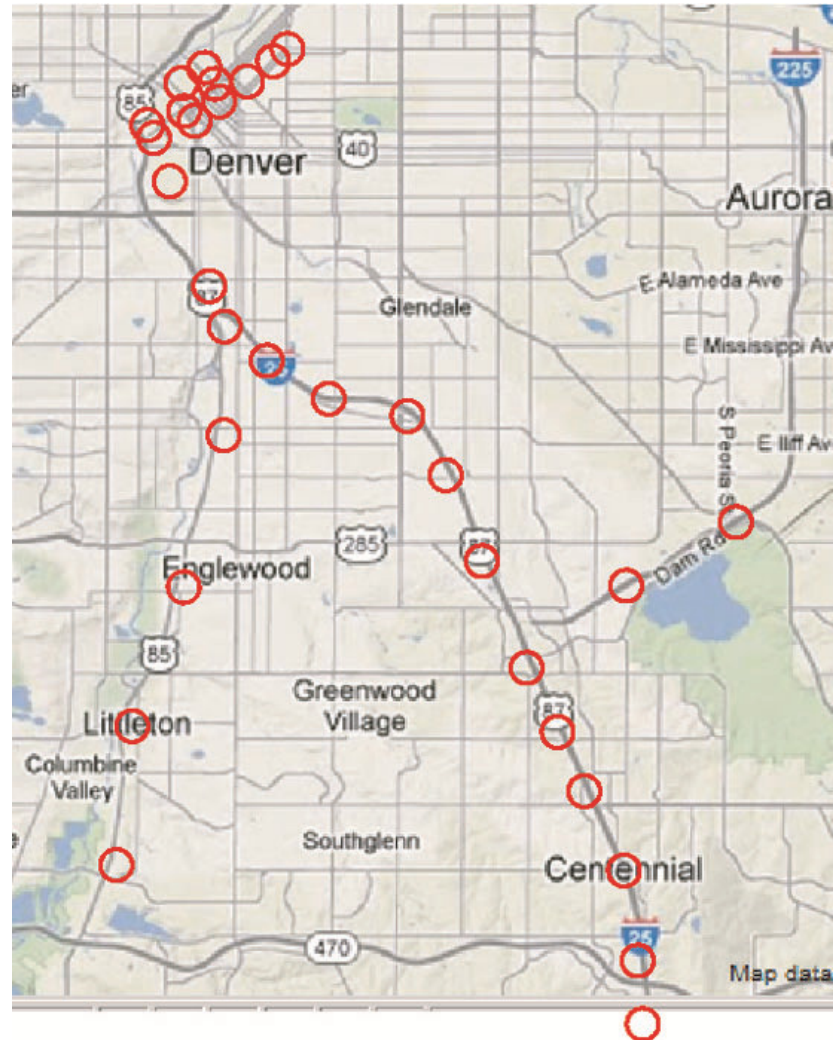
# TOD Case Study: Littleton

- **Living within one of Littleton's 2 TOD, what can get to?**
  - **Easy to get to downtown Denver for jobs and professional sporting events**
  - **Getting to daily living needs, not so easy.**



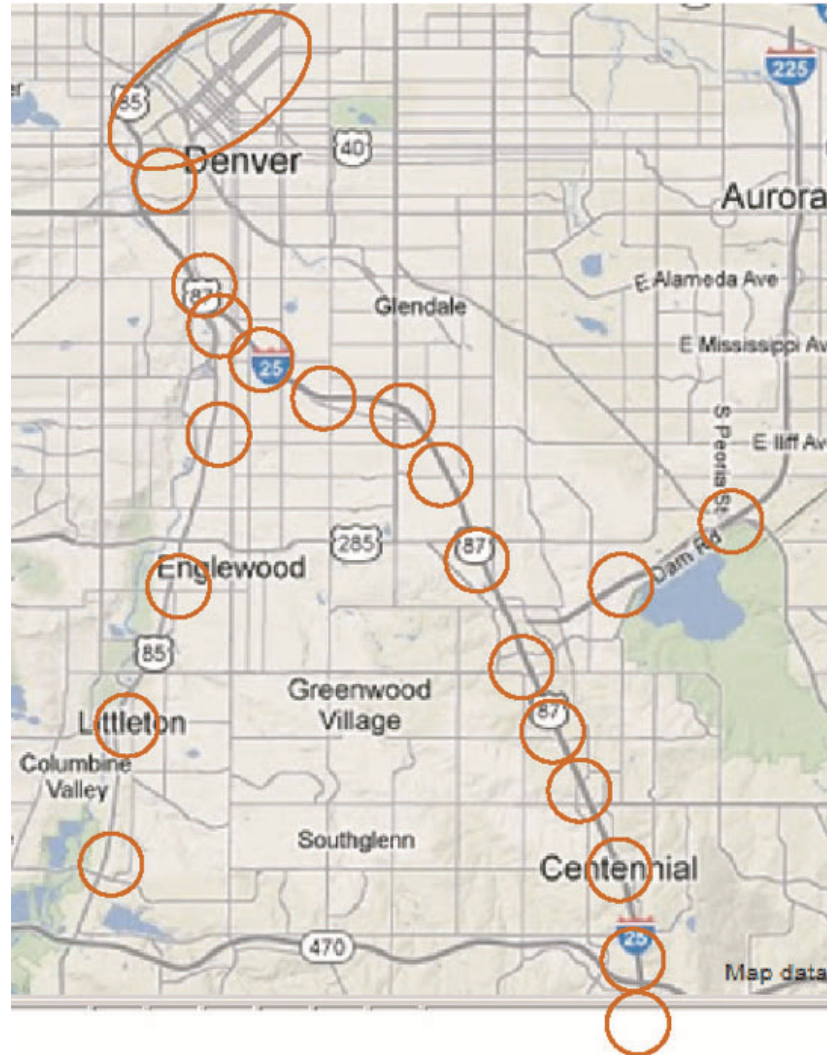
# TOD/MOD Denver Metro

## Walking Radius



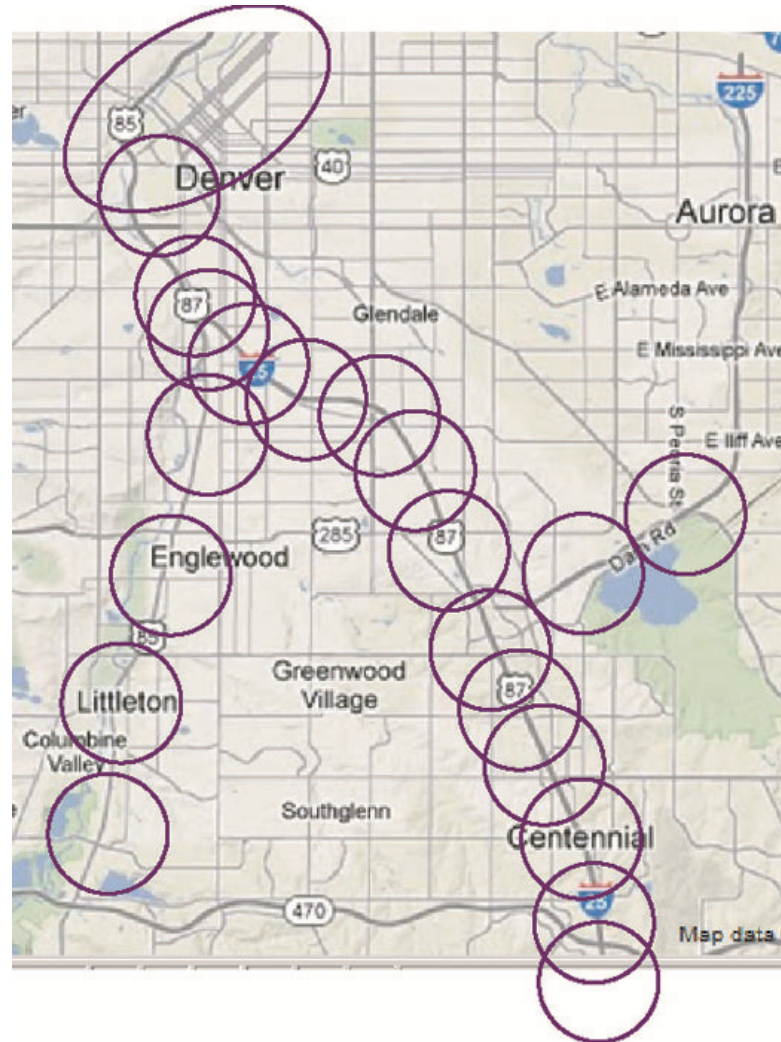
# TOD/MOD Denver Metro

## Bike Radius



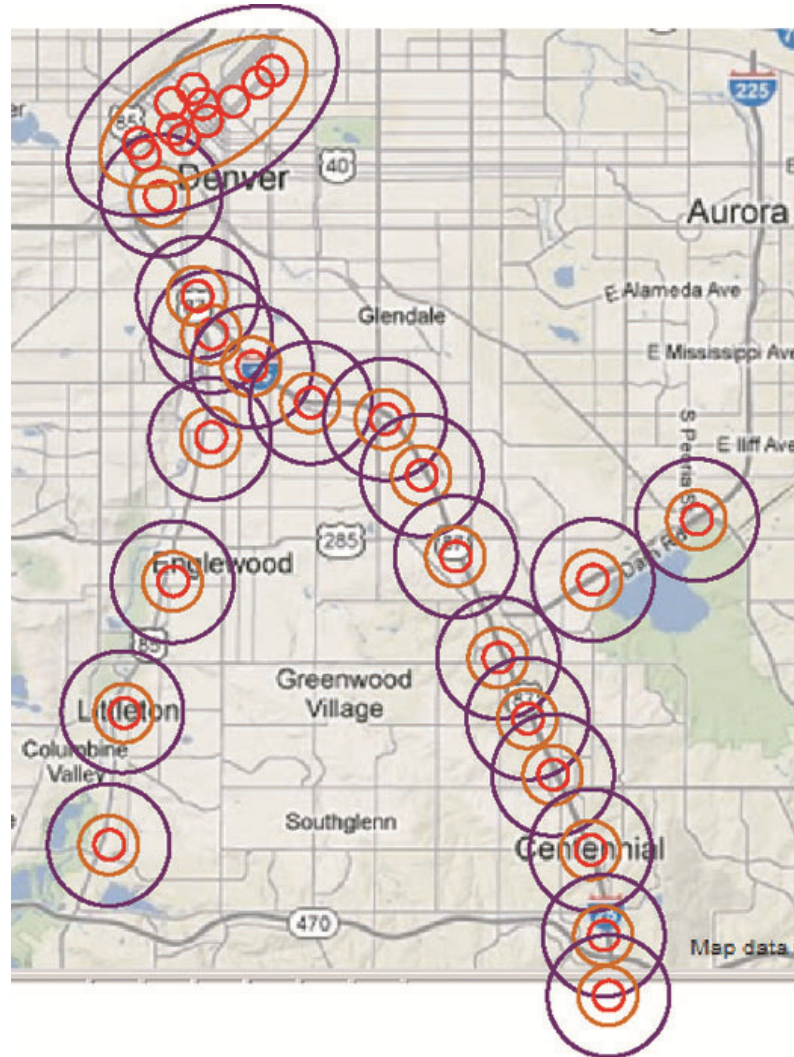
# TOD/MOD Denver Metro

## LSV Radius





# TOD/MOD Denver Metro



# Sustainability Toolkit for Family-Friendly Cities

Thank You



**Jennifer and Scott Ranville**

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