Measuring Accessibility to Public Transit in Pasadena, CA

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City of Pasadena, CA

- Located in Los Angeles County, CA
- Home to the Rose Bowl, Rose Parade, NASA’s Jet Propulsion Lab, CalTech, and many historic home and neighborhoods
- 23.5 Sq Mi. with 138,000 residents
- 6 Light Rail Stations
What are the impacts of changing the criteria of Transit Oriented Development (TOD) Parking Standards?
How to measure Transit accessibility?
Accessibility Analysis - Basic Steps

• Prepare Data
  > Street Network, Destination Points

• Perform Analysis
  > Create Cost Surface –
    ß Euclidean Distance (tool), Reclassify (tool)
  > Perform Cost Distance (tool)
  > Convert Final Analysis Raster to Polygon
    ß Reclassify, Covert to Polygon
Prepare Data

Department of Information Technology - GIS

- Street Network
Prepare Data

- Destination Point Layer
Create Cost Surface

- **Euclidean Distance**
  - > 30 ft cell size gives good result
**Reclassify**

- Assigns a value, or cost, of travel to each cell
Perform Cost Distance

- Final Analysis: Merging
Convert Analysis Raster to Polygon

- Reclassify, Convert to Polygon
• Build model for automation
• Developing true Pedestrian Network
• Refining Destination points: i.e. multiple entrances
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Questions?