

Central Corridor Light Rail Transit

Community Advisory Committee

June 21, 2007



*Improving
mobility*

*Easing
congestion*

*Strengthening
our communities*

Community Advisory Committee

- **Purpose**
 - Advise Corridor Management Committee (CCMC)
 - Provide input and feedback to staff
 - Issues related to planning, design & construction
- **Responsibilities**
 - Advise CCMC on issues such as station design, parking, accessibility and construction mitigation
 - Facilitate greater citizen participation
 - Provide feedback on structure and effectiveness of communication and public involvement efforts

Today's Agenda



- Reports
- Bus transit service
- Project budget

Central Corridor Light Rail Transit



Reports

Robin Caufman
Manager of Public Involvement

Community Outreach Coordinators



- Jessica Hill
- Rita Rodriguez
- Nkongo Cigolo
- Shoua Lee

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Bus Transit Service Planning

John Levin
Director of Service Development
Metro Transit

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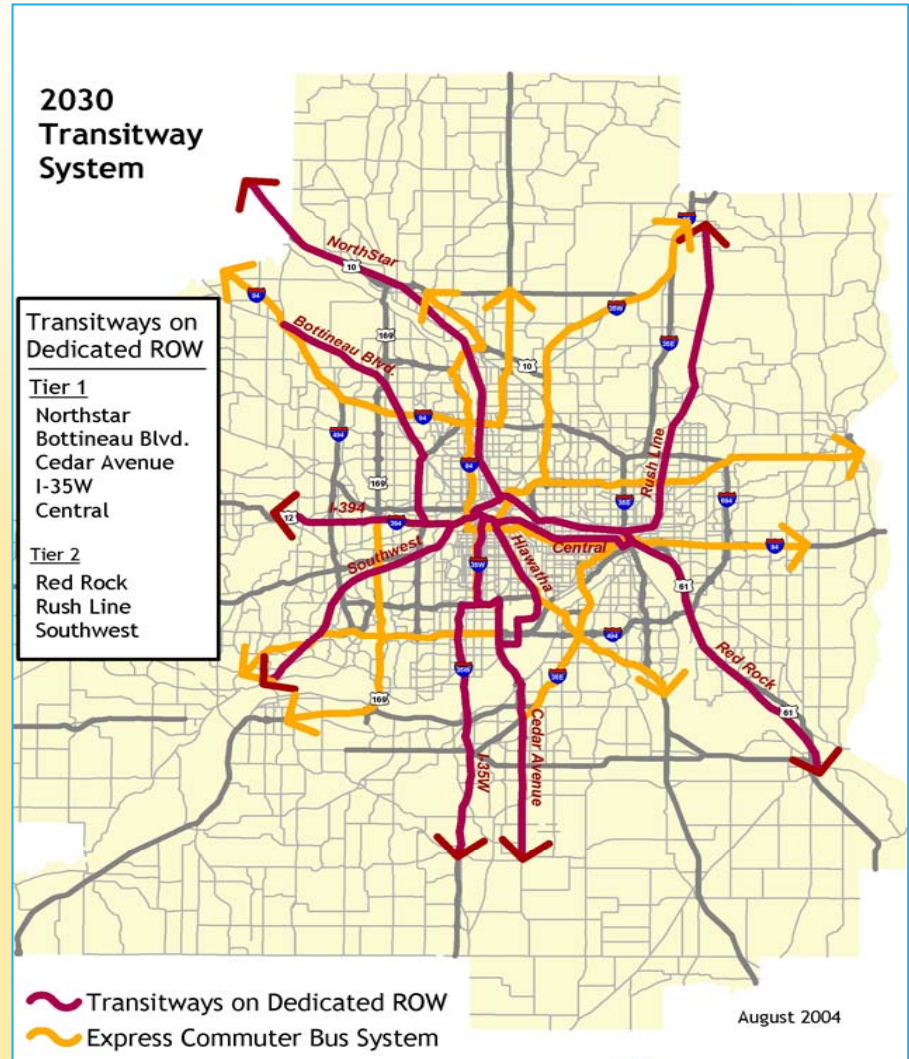
Tier I

- Northstar
- Central Corridor
- Bottineau Blvd
- Cedar Avenue
- I-35W

Tier II

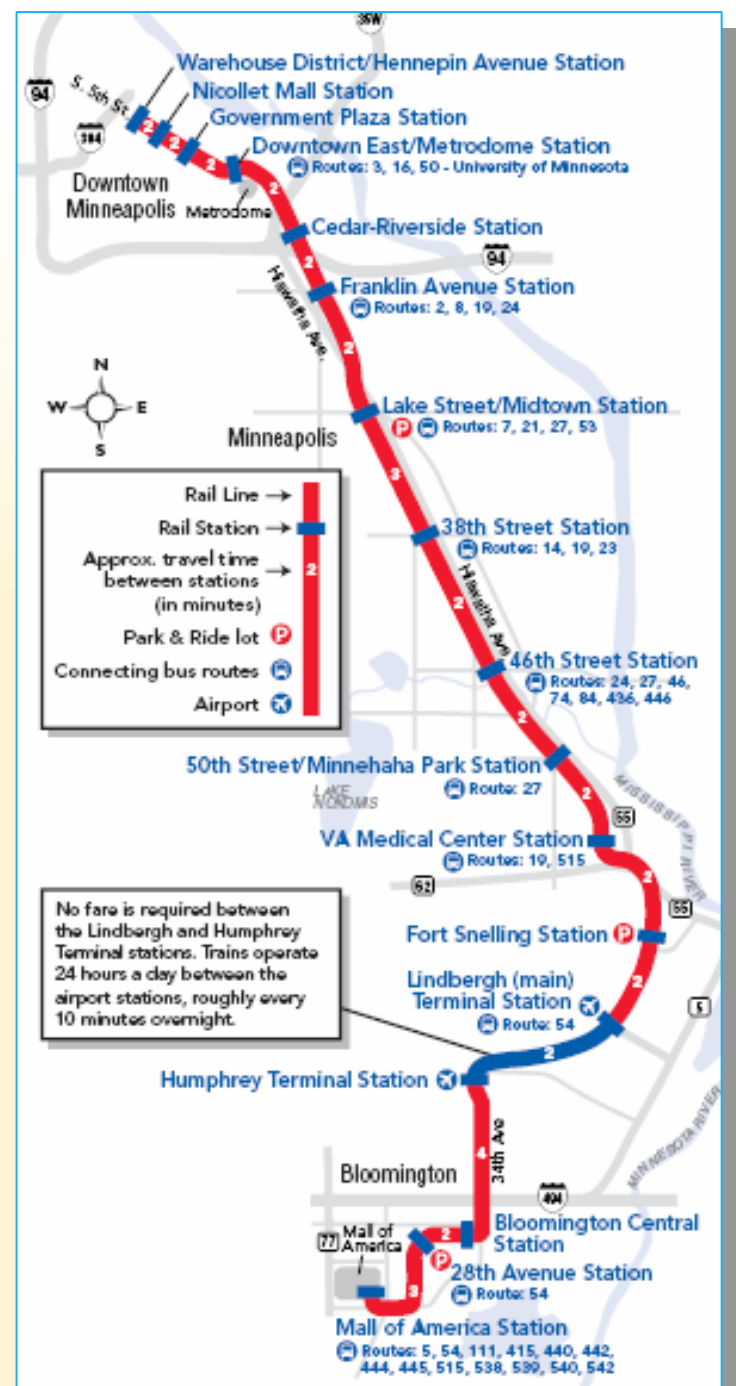
- Red Rock
- Rush Line
- Southwest

Regional Transitways



Central Corridor Light Rail Transit

- Hiawatha bus transit service
 - 12 miles; 17 stations
 - 34 local bus route connections south of downtown



Central Corridor Bus Transit Service

Central Corridor Light Rail Transit



- University Avenue
 - Route 16 – local
 - Route 50 – limited stop
- Interstate 94
 - Route 94 – express
- Connecting Routes

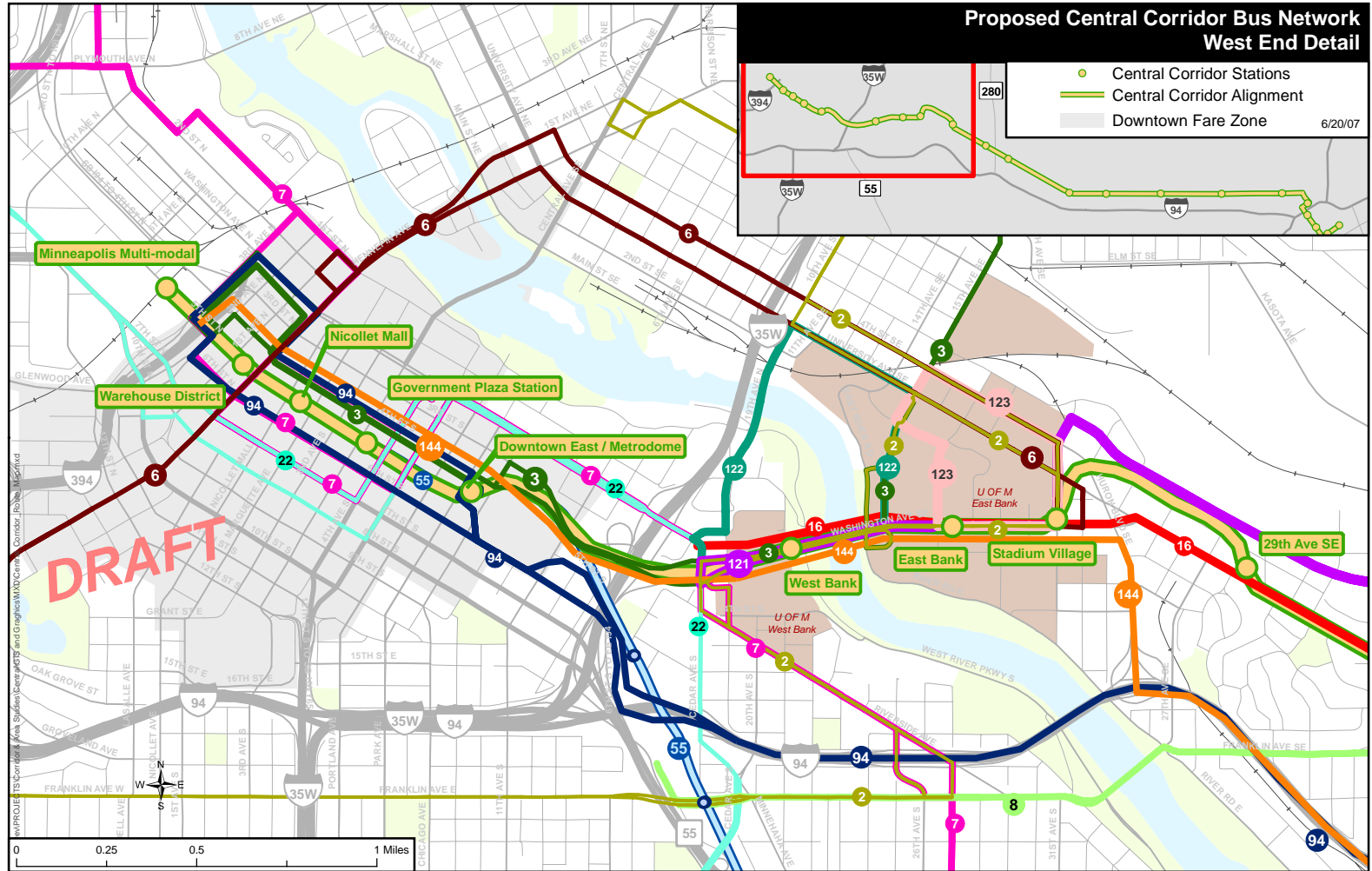
Connecting Routes



- Integrate existing radial and crosstown routes with LRT
- Fill in bus network to provide ½ mile route spacing
- Provide as frequent service as possible (will depend on funding)

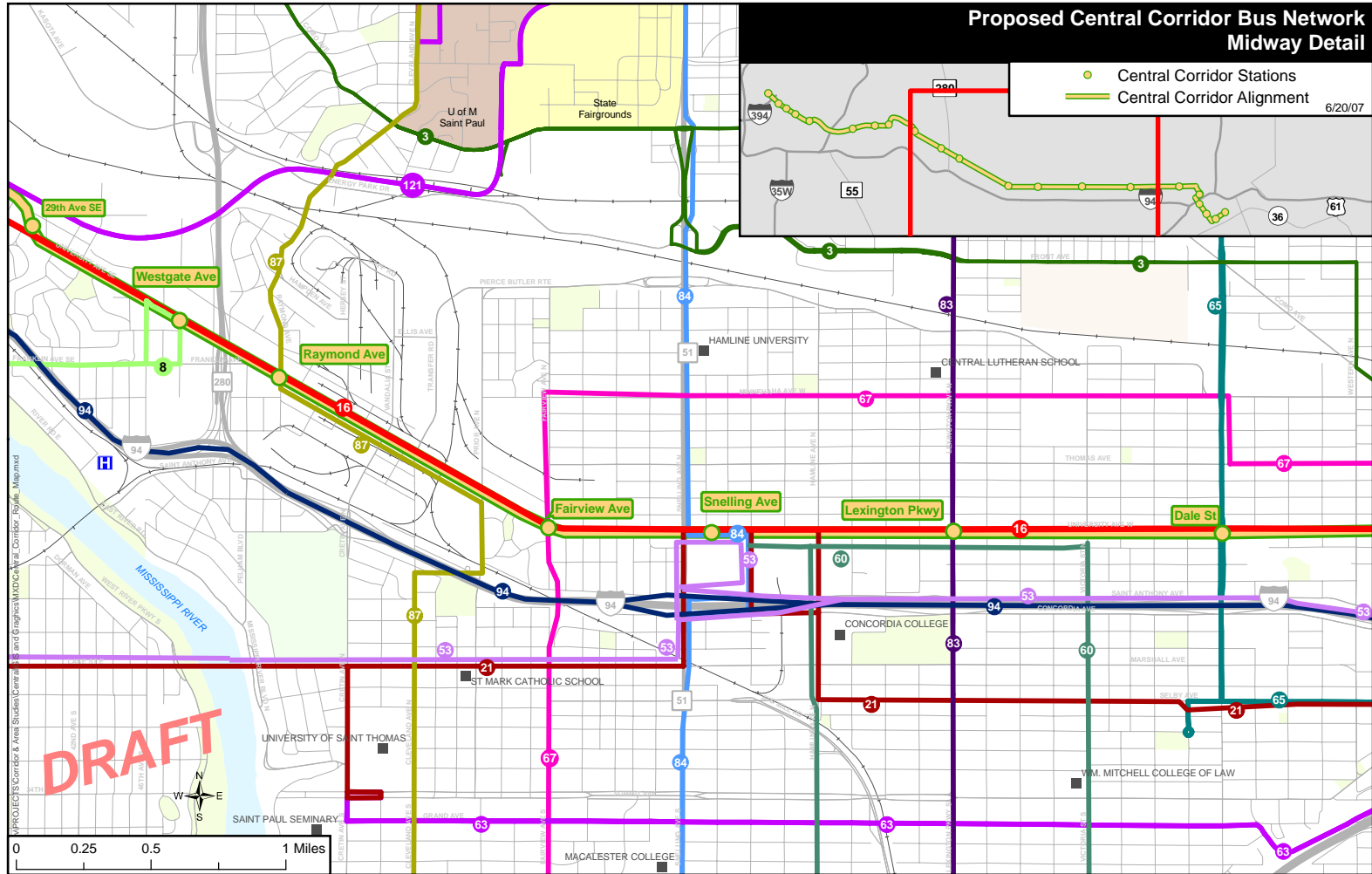
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Bus Network



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Bus Network

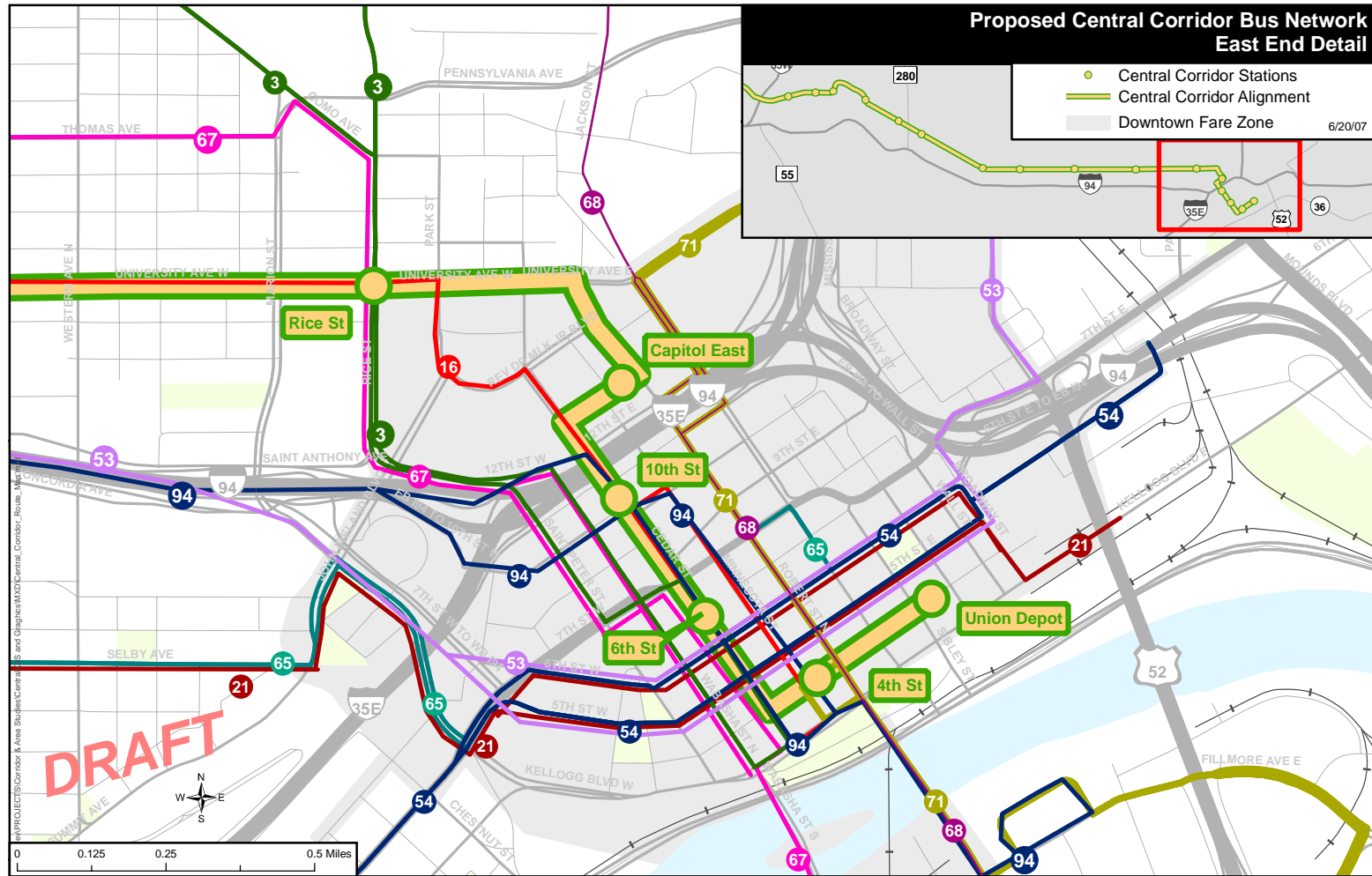


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Bus Network



Next Steps



- Continue to review bus service plans as part of the Preliminary Engineering process
- Wait for final station locations to be determined before finalizing bus routes

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Project Budget

Mark Fuhrmann
Project Director

Project Budget

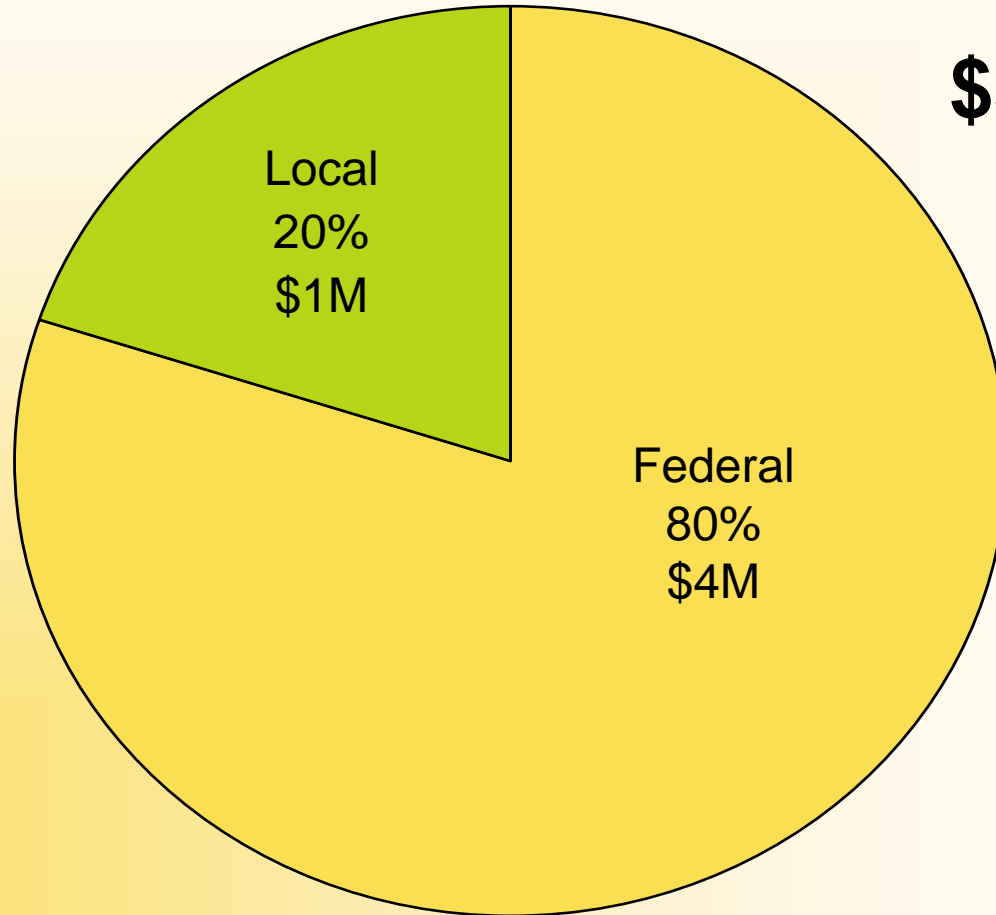


- DEIS sources and uses
- Preliminary Engineering sources and uses
- Project sources and uses
- Relationship to Cost Effectiveness Index (CEI)

**Central Corridor
Light Rail Transit**

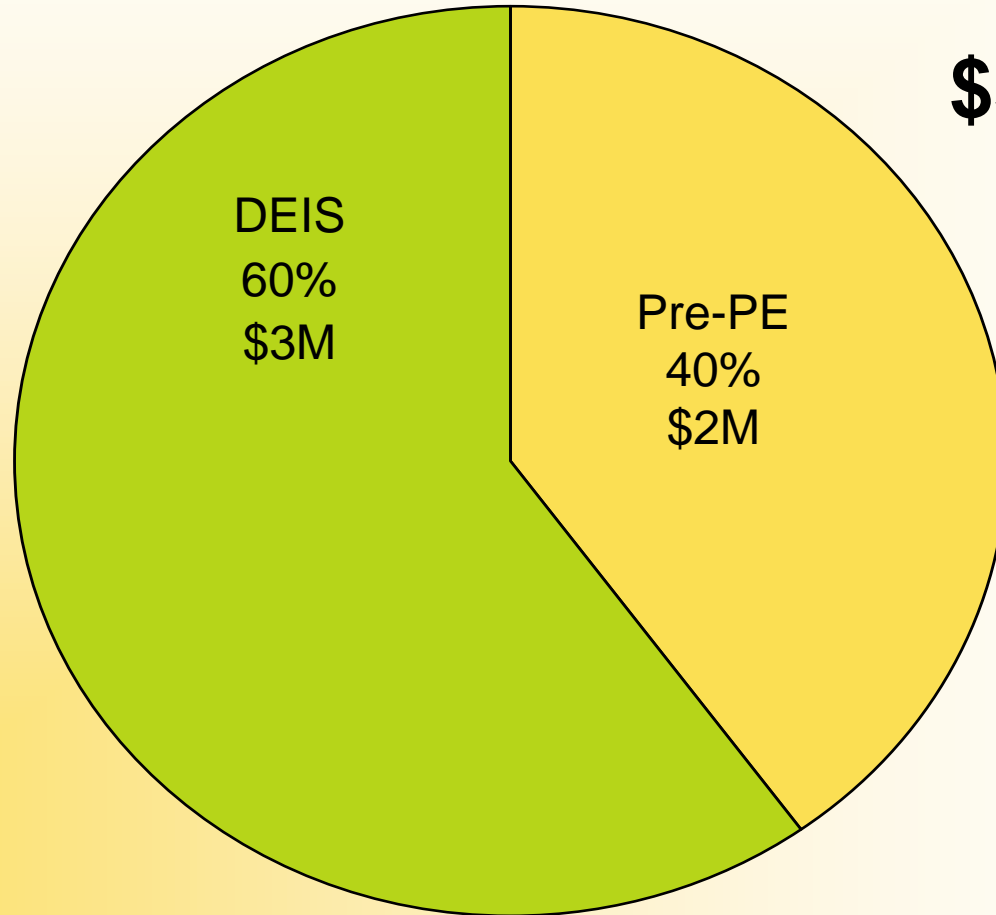
DEIS/AA Sources of Funds

\$5 Million



DEIS/AA Uses of Funds

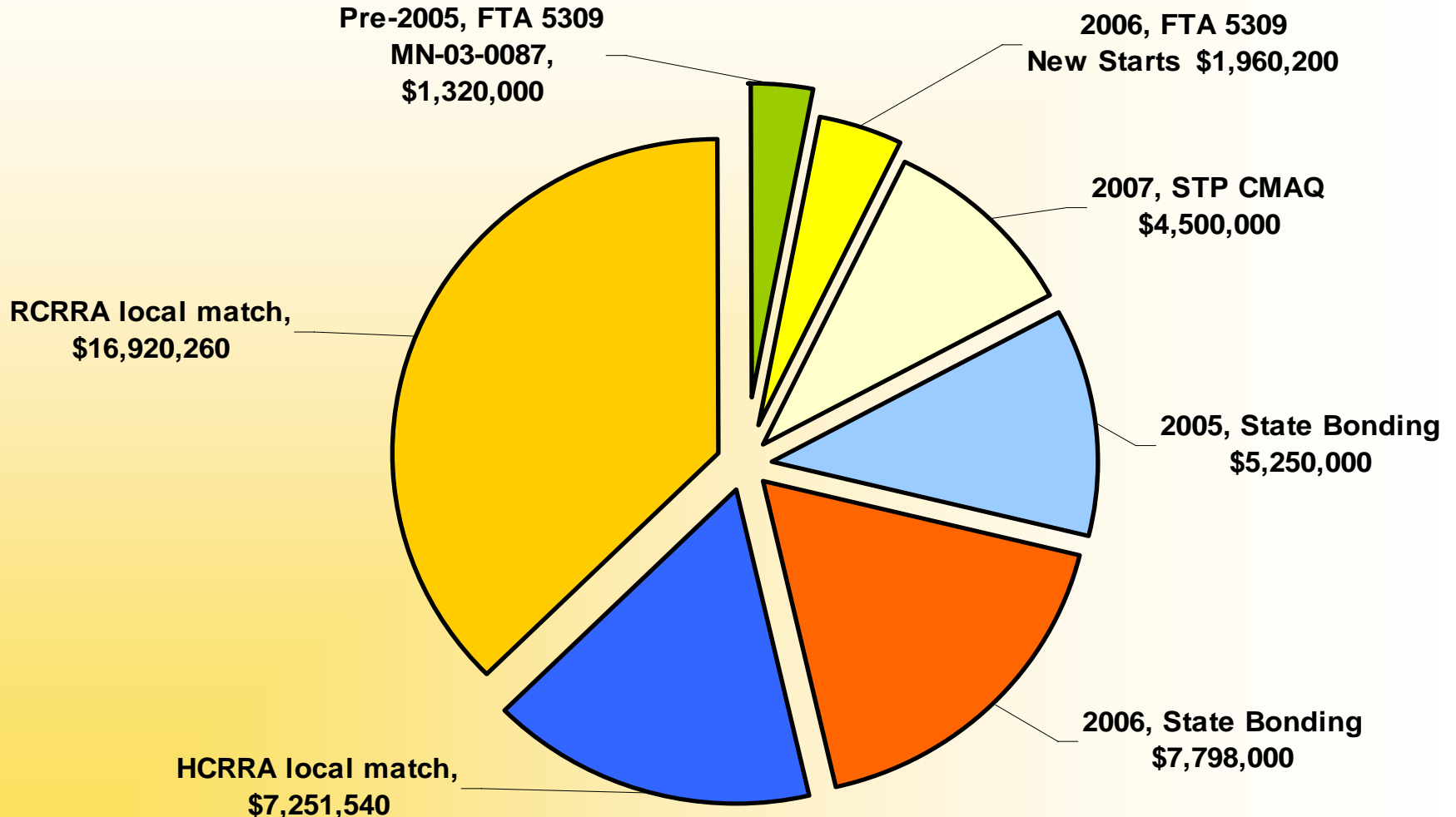
\$5 Million



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PE Sources

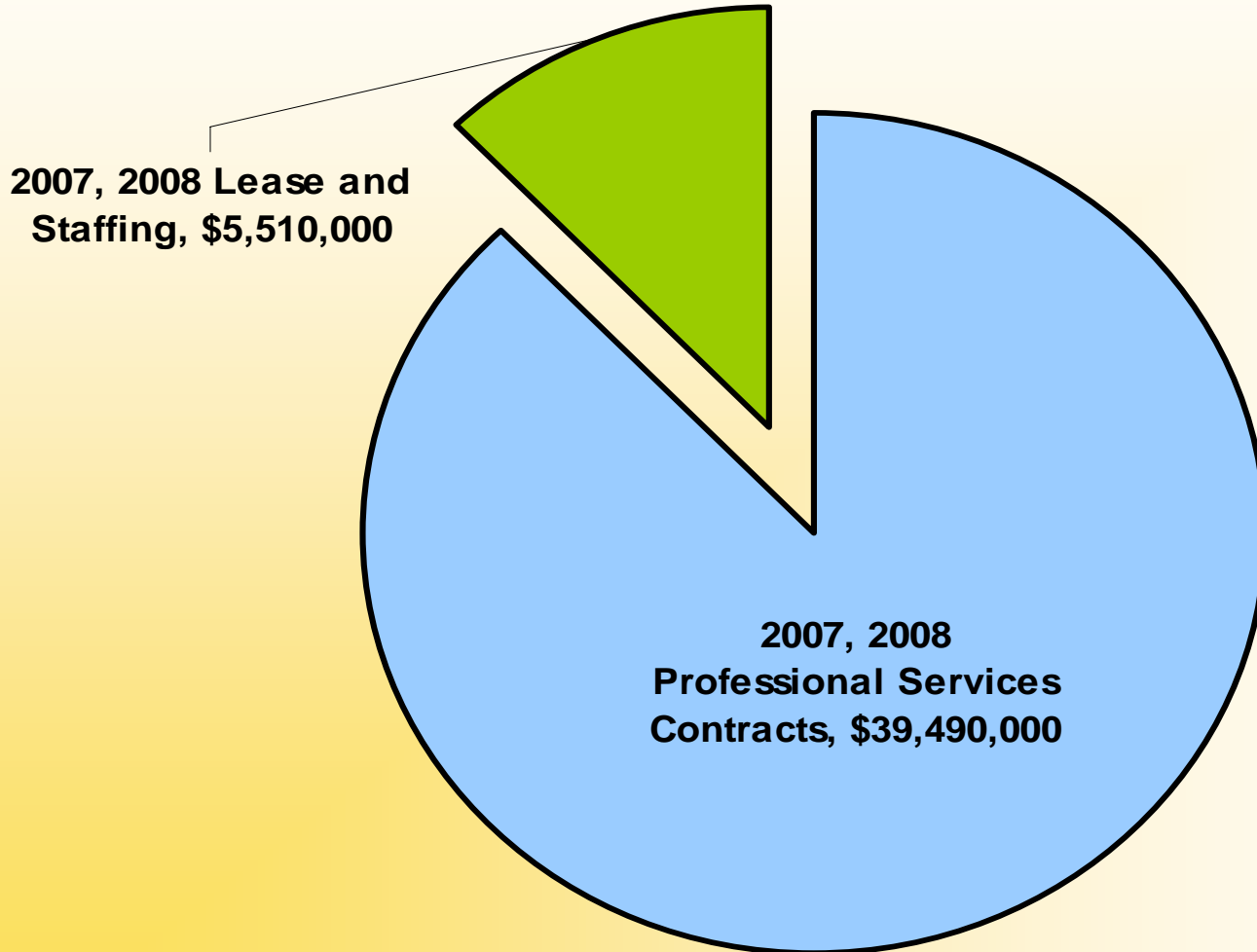
\$45,000,000



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PE Uses

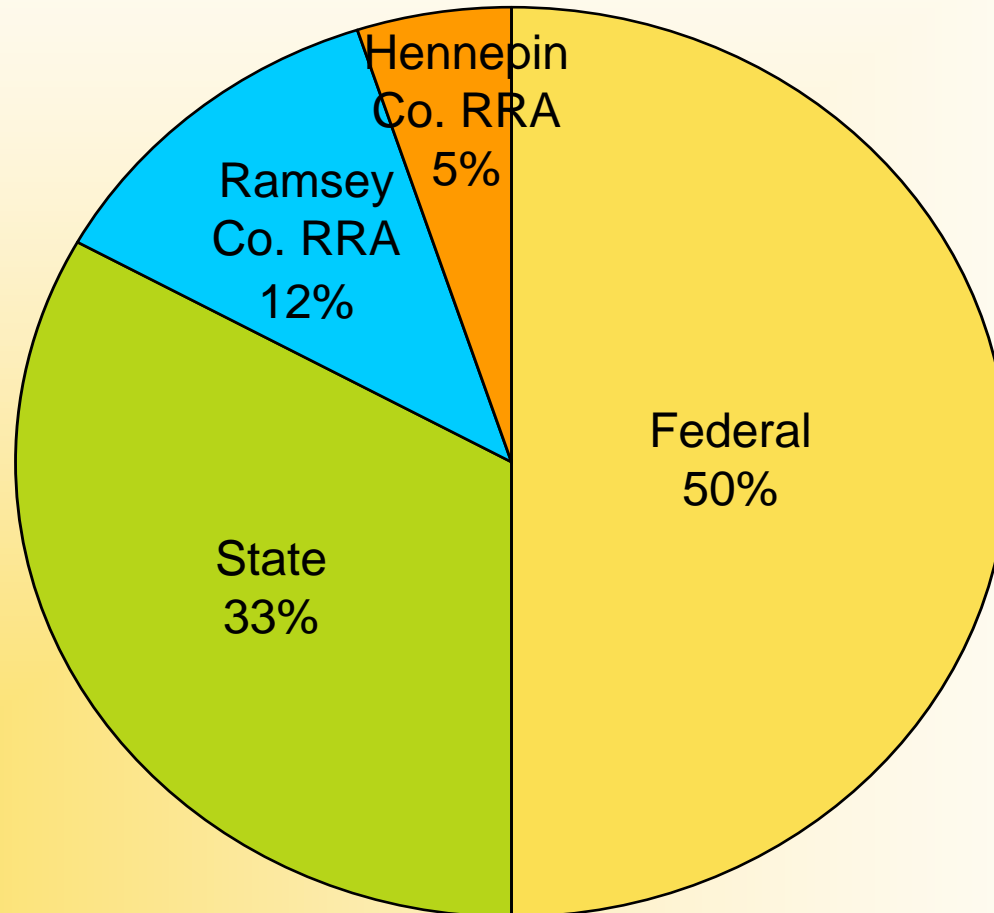
\$45,000,000



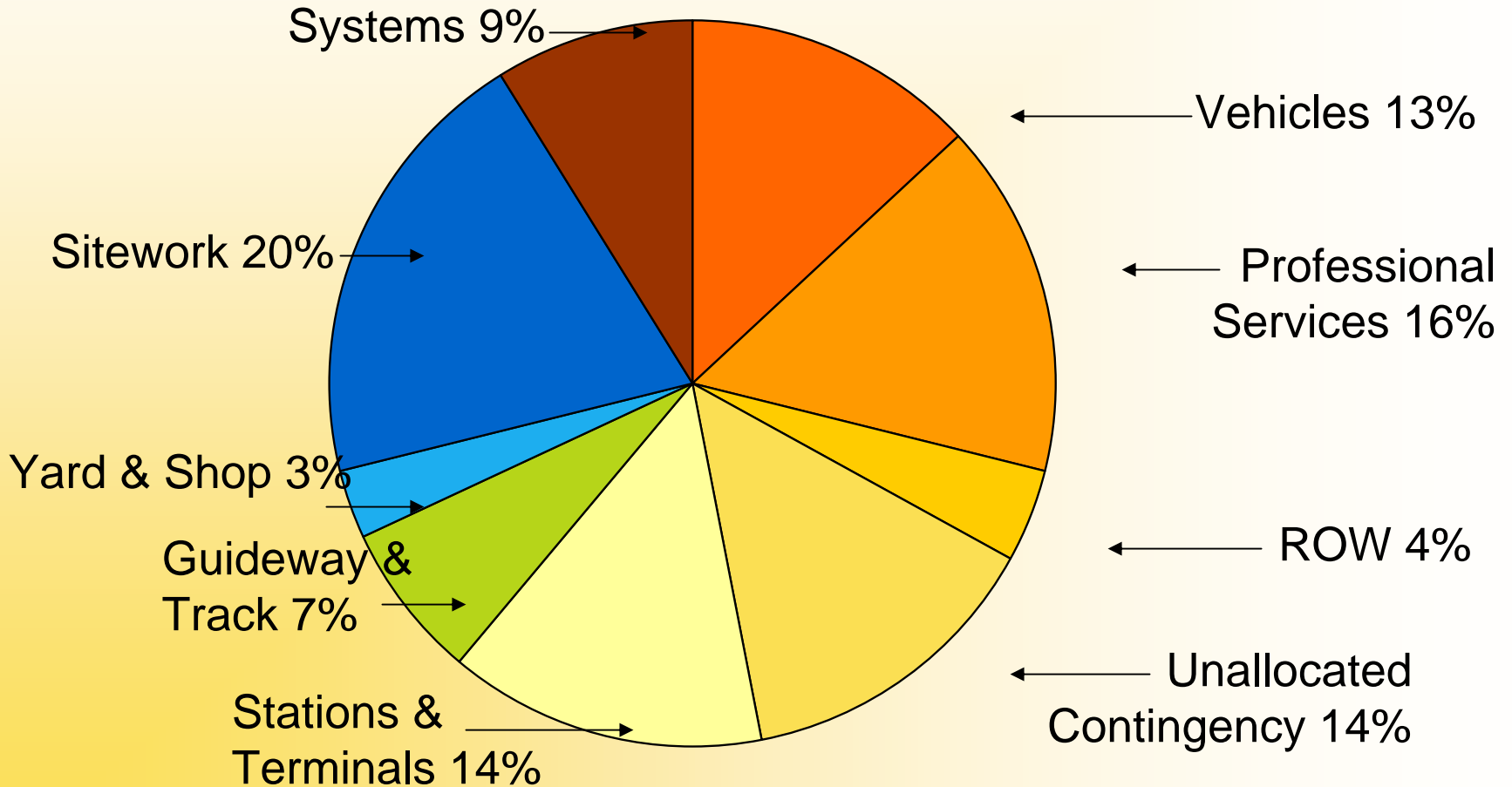
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Project Sources of Funds



Project Uses of Funds



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FTA Cost Effectiveness Index

$$\text{CEI} = \frac{\text{Annualized capital and operating costs}}{\text{Annual travel time savings}}$$

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CEI Ratings Needed to Advance Projects



Enter Preliminary Engineering	\leq \$28.99
Enter Final Design	\leq \$28.99
Secure Full Funding Grant	\leq \$22.99

Cost Effectiveness for Peer LRT Projects

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Preliminary Engineering

Peer Project	Rating	CEI
• Sacramento South	Medium-High	\$13.59
• Seattle University	Medium	\$19.93
• Norfolk	Medium	\$21.66
• Houston North	Medium-Low	\$23.80
• Houston South	Medium-Low	\$24.31

What happens to CEI if the costs change?



- Two **hypothetical** examples
 - Rebuild Cedar Street bridge
 - Add a station
- Factors that influence the CEI
 - Costs
 - Ridership
 - Travel time savings

Hypothetical Situation #1: Rebuild Cedar St. bridge



- Assumptions
 - Cost = \$10M
 - Useful life = 80 years
- Impacts
 - Adds \$703,000 to annualized capital cost
 - Increases the CEI by \$0.27 from \$24.84 to \$25.11

Hypothetical Situation #2: Add a Station

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- Assumptions
 - Cost = \$5M, Useful life = 70 years
 - Adds 280 riders at new station
 - Reduces 170 riders at existing station
 - Increases travel time by 44 seconds
 - Reduces 510 additional riders along entire line

$$\text{CEI} = \frac{\text{Annualized capital and operating costs}}{\text{Annual travel time savings}}$$

Hypothetical Situation #2: Add a Station



- **Impacts**

- Adds \$353,000 to annualized capital cost
- Decreases ridership overall by 400 due to longer travel time
- Increases the CEI by \$0.33 from \$24.84 to \$25.17

$$\text{CEI} = \frac{\text{Annualized capital and operating costs}}{\text{Annual travel time savings}}$$

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More Information

Check out our website:

- www.metrocouncil.org

Contact the Data Center:

- Metropolitan Council
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St. Paul, MN 55101
- Phone: 651-602-1140
- Email: data.center@metc.state.mn.us

