Prioritize for Progress: Changing How States Rack and Stack Projects

Moderator:
Brandye Hendrickson, Deputy Director, AASHTO

Speakers:
Nick Donohue, Deputy Secretary of Transportation, Commonwealth of Virginia
Ed Sniffen, Deputy Director for Highways, Hawaii Department of Transportation
Beth Osborne, Director, Transportation for America
Destination accessibility

A tool for transportation decision-making
Why measure destination access?

Mobility measures

- Travel speed
- Level of service
- Vehicle throughput
- Person throughput
Why measure destination access?

Accessibility measures

- Origins
- Destinations
- Ability to travel between them
Related outcomes

Greater accessibility is associated with lower travel demand and greater economic value.

![Home values scatter plot](image)

![Automobile commuters scatter plot](image)

![Household VMT scatter plot](image)
Measuring accessibility

1. Information about transportation networks
2. Information about opportunities
3. Method of calculation
4. Applications in decision-making

How many jobs can someone walk to within 15 minutes?
Access to jobs by driving (morning)

| < 15 min | 29,000 |
| < 30 min | 293,000 |
| < 45 min | 308,000 |
| Weighted  | 212,000 |
Access to jobs by transit

Jobs accessible

<table>
<thead>
<tr>
<th>Time Limit</th>
<th>Jobs Accessible</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 15 min</td>
<td>250</td>
</tr>
<tr>
<td>&lt; 30 min</td>
<td>24,000</td>
</tr>
<tr>
<td>&lt; 45 min</td>
<td>33,000</td>
</tr>
<tr>
<td>Weighted</td>
<td>18,000</td>
</tr>
</tbody>
</table>

Access to jobs (transit)

- 0 - 5k
- 5 - 10k
- 10 - 15k
- 15 - 20k
- 20 - 25k
- 25 - 35k
- 35 - 45k
- 45k +

Weights

Minutes (by transit)

0.00 0.25 0.50 1.00

0 30 60 90 120
Project evaluation: New bus line

Total impact
- 1.03 million household-jobs

Average impact
- 5 jobs
- Across 200,000 households

Related impacts
- Mode share and VMT
- Transit ridership
- Active transportation
- Land values
Access to destinations by walking

Access to:
- Schools
- Shopping
- Entertainment
- Grocery stores
- Food and drink
- Recreation
- Healthcare
- Public services
- Banks and ATMs

Non-work access (walking)
- 0.0 - 12.5
- 12.5 - 25.0
- 25.0 - 37.5
- 37.5 - 50.0
- 50.0 - 62.5
- 62.5 - 75.0
- 75.0 - 87.5
- 87.5 - 100

Weights

Minutes (by walking)
Project assessment: Pedestrian improvements
Project assessment: Mixed-use development

Walking accessibility
- 0 - 12.5
- 12.5 - 25
- 25 - 37.5
- 37.5 - 50
- 50 - 62.5
- 62.5 - 75
- 75 - 87.5
- 87.5 - 100

Change in walking accessibility
- < 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 5.0
- 5+

Legend:
- Tysons
- Vienna
Applications in decision-making

- Scan conditions
- Diagnose problems
- Assess solutions
- Engage stakeholders
- Track performance
- Predict outcomes
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