METROPOLITAN TRANSPORTATION PLANNING AND PROGRAMMING

ASCE Dallas Branch Meeting
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http://www.nctcog.org/trans/presentations/index.asp
Presentation Outline

Demographics

Mobility 2040 Plan

10 Year Project Programming
Regional Population Growth

Year | Population in Millions
--- | ---
1970 | 2
1980 | 3
1990 | 4
2000 | 5
2010 | 6
2020 | 7
2030 | 8
2040 | 9
What is the Metropolitan Transportation Plan?

- Represents a blueprint for the region’s multimodal transportation system
- Covers at least a 20-year timeframe
- Responds to Regional Transportation Council goals
- Identifies policies, programs, and projects for continued development
- Guides the expenditure of federal and state transportation funds
## Mobility 2040 Prioritization and Expenditures

<table>
<thead>
<tr>
<th>Category</th>
<th>Strategies</th>
<th>Expenditures (billion)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximize Existing System</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infrastructure Maintenance</td>
<td>• Maintain &amp; Operate Existing Facilities • Bridge Replacements</td>
<td>$37.4</td>
</tr>
<tr>
<td>Management and Operations</td>
<td>• Improve Efficiency &amp; Remove Trips from System • Traffic Signals and Bicycle &amp; Pedestrian Improvements</td>
<td>$7.2</td>
</tr>
<tr>
<td>Growth, Development, and Land Use Strategies</td>
<td>More Efficient Land Use &amp; Transportation Balance</td>
<td>$3.6</td>
</tr>
<tr>
<td>Strategic Infrastructure Investment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rail and Bus</td>
<td>Induce Switch to Transit</td>
<td>$27.2</td>
</tr>
<tr>
<td>HOV/Managed Lanes</td>
<td>Increase Auto Occupancy</td>
<td>$43.4</td>
</tr>
<tr>
<td>Freeways/Tollways and Arterials</td>
<td>Additional Vehicle Capacity</td>
<td></td>
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</tbody>
</table>

### Mobility 2040 Expenditures

$118.9*  

*Actual dollars, in billions. Values may not sum due to independent rounding.
Regional Veloweb

Facility Status

- Existing: 442 Miles
- Funded: 146 Miles
- Planned: 1,288 Miles

Total: 1,876 Miles

Major Roads

Dallas CBD

Fort Worth CBD

Facility recommendations indicate transportation need. Corridors specific alignment, design, and operational characteristics for the Regional Veloweb system will be determined through ongoing project development.
Facility recommendations indicate transportation need. Corridor-specific alignment, design, and operational characteristics will be determined through ongoing project development.
Funded Major Arterial Improvements

Facility recommendations indicate transportation need. Corridor-specific alignment, design, and operational characteristics will be determined through ongoing project development.
Illustrative roadway corridors indicate an identified transportation need and do not represent recommendations or specific alignments. Recommendations may be developed for future MTPs through feasibility analyses, thoroughfare plans, and environmental studies.
Regional Funding Allocation
From FY 2017 to FY 2026

TIP funding categories for project selection
- Category 2 – Urban Mobility Corridors (RTC) - $3.42B
- Category 4 – Statewide Connectivity (TxDOT Districts) - $1.53B
- Category 12 – Commission Strategic Priority (TTC) - $2.03B

Projects being evaluated in “three paths”
- Previously unfunded commitments or existing facilities under construction needing next phase funding
- New freeway projects
- New on-system arterial projects
Project Prioritization: Process of Filling Funding Buckets

A) Previously Unfunded or Existing Facilities Under Construction Needing Next Phase Funding
   1) Needs Assessment
   2) Staged Construction
   3) Metric

B) New Freeway Project
   1) HB 20
   2) Freeway Performance Filter

C) New On-System Arterial Project
   1) HB 20
   2) Arterial Performance Filter

Tolled?, CAPMAIN?
Yes
Category 2

No
Connectivity? District Interest?
Yes
Category 4

No
Commission Interest?
Yes
Category 12

No
Need for Additional Funding

Percentage of Funding Allocated to Each Bucket
Bucket A: 38%
Bucket B: 43%
Bucket C: 19%
Bucket B Project Review

10 Year Plan Performance Measures Analysis
Projects Meeting Congestion Criteria
*Map includes only Freeway/Tollway projects in Mobility 2040

Legend
• Congestion Criteria Met
• Currently Under Construction
• Year 2040 Roadways

Congestion Criteria:
1. Lanes Warranted ≥ 12
2. Greater of:
   (Future V/C OR Current V/C) ≥ 1.25

Dallas CBD
Fort Worth CBD
Bucket C Project Review

10-Year Plan

10-Year Plan Projects with 2040 Levels of Congestion/Delay

Legend

- Congestion Index*
  - No Congestion
  - Light Congestion
  - Moderate Congestion
  - Severe Congestion
- 10-Year Plan
- Recommendations
- Previous Commitment
- Major Roads

*Congestion Index is based on a percent increase in travel time.

December 2016
10-Year Plan Projects
FY 2017 - FY 2026

Legend
- **Recommended Roadway Project**
- **Recommended Intersection Project**
- **Previous Commitment**
- **Mobility 2040 Roadways**
- **County Boundary**
- **Lakes**

North Central Texas Council of Governments

Date: 12/7/2016