The Central Virginia Transportation Authority

IDENTIFYING AND FUNDING STRATEGIC TRANSPORTATION OPPORTUNITIES IN VIRGINIA

NOVEMBER 18, 2021 COMMUNITY TRANSPORTATION ADVISORY COMMITTEE
THE CENTRAL VIRGINIA TRANSPORTATION AUTHORITY

- Organized in August 2020
- Nine Jurisdictions in Central Virginia plus DRPT, VDOT, CTB, GRTC, GA (2), RMTA, PoV*
- Administers funds collected from gas tax and sales tax specifically for transportation purposes
- Revenues disbursed according to three categories
- Advisory committees – Finance and Technical
CVTA BACKGROUND

- Annual revenues for FY22 projected to be ~$187M
- Three “pots” of funds distributed
- Weighted voting based on population
- Focus on leveraging local dollars for larger investment ie: debt
- Functions and powers:
  - Regional prioritization of projects
  - Annual regional transit plan
  - Oversee distribution of local funds
  - Issue bonds as needed
TRANSPORTATION PROCESS FLOW

Long Range Plan - RRTPO

Funding Priorities & Allocation - CVTA

United Project Development
# PROJECT SCORING & RANKING

### Table 4: CVTA Regional Scoring for Project Categories: Highway, Bike/Pedestrian, Multimodal, Transit, Studies, PE-Only

<table>
<thead>
<tr>
<th>Goal</th>
<th>Safety</th>
<th>Mobility</th>
<th>Accessibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Goal Weight</td>
<td>38.5%</td>
<td>23%</td>
<td>38.5%</td>
</tr>
<tr>
<td>Performance Measure</td>
<td>Crash Frequency</td>
<td>Crash Rate</td>
<td>Person Throughput</td>
</tr>
<tr>
<td>Performance Measure Weight</td>
<td>70%</td>
<td>30%</td>
<td>50%</td>
</tr>
<tr>
<td>Description</td>
<td>Reduction in EPDO of Fatal and Injury Crashes (5-year period)</td>
<td>Reduction in EPDO of Fatal and Injury Crashes per 1 million VMT</td>
<td>Increase in Person Throughput (Peak Period)</td>
</tr>
</tbody>
</table>

### Table 5: CVTA Regional Scoring for Project Category: Bridge

<table>
<thead>
<tr>
<th>SGR Factor</th>
<th>Importance</th>
<th>Condition</th>
<th>Design Redundancy and Safety</th>
<th>Structure Capacity</th>
<th>Cost Effectiveness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factor Weight</td>
<td>30%</td>
<td>25%</td>
<td>15%</td>
<td>10%</td>
<td>20%</td>
</tr>
<tr>
<td>Description</td>
<td>Traffic volume, truck traffic, detour route, future traffic volume, and key route designations</td>
<td>Measures overall condition of the bridge using detailed condition data compiled from the safety inspection report</td>
<td>Fracture-critical bridges, fatigue prone details, and scour and seismic vulnerability</td>
<td>Consideration of whether the bridge will be posted or has issues with clearances or waterway adequacy</td>
<td>Ratio of actual project cost to the cost for full replacement</td>
</tr>
</tbody>
</table>
PROJECT SELECTION

**Step 1**
Review Project Scores & Rankings
- Projects scored and ranked within each category by staff

**Step 2**
Request Annual Allocations
- Annual funding amounts available for programming to projects provided by Finance Committee

**Step 3**
Develop Draft Funding Scenario
- Draft funding scenario developed by staff with consideration to:
  - Funds applied proportionally to the value of requests by category
  - Balance amongst categories and jurisdictions
  - Funding for Studies and PE-only projects not exceeding 5% and 10%, respectively, of annual regional funding

**Step 4**
Review/Revise Draft Funding Scenario
- Funding scenario reviewed by Finance Committee and TAC
  - Funding scenario revised to allow changes to leveraging amount?
    - **YES**
      - Recommendation by Finance Committee and TAC
    - **NO**
      - Recommendation by Finance Committee and TAC

**Step 5**
Hold Public Hearing & Adopt Funding Scenario
- Public comments reviewed by Finance Committee and TAC and provided to Authority with recommendations
- Funding scenario adopted
ELIGIBLE PROJECTS

- Arterials
- 20,000 Vehicles per Day
- Corridor of Statewide Significance
- Arterial Preservation Network
PROJECT DEVELOPMENT PROCESS

Project Applications
Develop a full inventory of regionally-significant project needs

Cost Estimates
Understand planning-level cost factors based on engineering plans and best available information. Collaboratively develop budgets to horizon year.

Performance Measures
Identify quantitative measures to assess project effectiveness and impact using key categories

Project Scoring
Score individual projects using PMs and impact data from travel demand model, EJ analysis and custom scripts

Funding Plan
Use scores and benefit/cost to rank projects and develop timebands for implementation to be included in recommended plan
QUESTIONS?

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