LRTP Process Update

Task 1: Transportation Needs Assessment
What are the Transportation Issues to Address?
Transportation Issues and Needs Assessment

Task 1.0 Socioeconomic Data Update and Analysis
Completed

Task 1.1 Richmond/Tri-Cities Travel Demand Model Update
Complete by February 2020

Task 1.2 Transportation Needs Assessment
Ongoing – Targeted Approval by LRTP-AC by March/April
Task 1.0 Socioeconomic Data Update and Analysis

The Socioeconomic Data provides estimates and projections of population, employment and other socioeconomic data of the Richmond Region within small geographic areas called Transportation Analysis Zones (TAZs). It is an input into the RRTPO’s Regional Travel Demand Model (The RTC Model).
# Task 1.0 Socioeconomic Data Update and Analysis

## Population

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>2017</th>
<th>2045</th>
<th>Total Growth Rate</th>
<th>Annual Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charles City County</td>
<td>7,126</td>
<td>8,540</td>
<td>19.84</td>
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<tr>
<td>Chesterfield County</td>
<td>340,848</td>
<td>437,512</td>
<td>28.36</td>
<td>1.01</td>
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<td>Goochland County</td>
<td>23,536</td>
<td>33,738</td>
<td>43.35</td>
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<td>Hanover County*</td>
<td>109,595</td>
<td>145,559</td>
<td>32.82</td>
<td>1.17</td>
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<tr>
<td>Henrico County</td>
<td>335,283</td>
<td>430,222</td>
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<td>21,347</td>
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<td>69.91</td>
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<td>Powhatan County</td>
<td>29,147</td>
<td>41,248</td>
<td>41.52</td>
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<tr>
<td>Richmond City</td>
<td>224,798</td>
<td>280,141</td>
<td>24.62</td>
<td>0.88</td>
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<td><strong>Region Total</strong></td>
<td>1,091,680</td>
<td>1,413,230</td>
<td>29.45</td>
<td>1.05</td>
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## Employment

<table>
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<tr>
<th>Jurisdiction</th>
<th>2017</th>
<th>2045</th>
<th>Total Growth Rate</th>
<th>Annual Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charles City County</td>
<td>1,668</td>
<td>1,832</td>
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<td>Chesterfield County</td>
<td>131,120</td>
<td>177,742</td>
<td>35.56</td>
<td>1.27</td>
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<tr>
<td>Goochland County</td>
<td>13,966</td>
<td>20,507</td>
<td>46.84</td>
<td>1.67</td>
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<td>Hanover County*</td>
<td>50,625</td>
<td>65,859</td>
<td>30.09</td>
<td>1.07</td>
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<td>Henrico County</td>
<td>191,240</td>
<td>238,938</td>
<td>24.94</td>
<td>0.89</td>
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<td>New Kent County</td>
<td>3,956</td>
<td>5,979</td>
<td>51.14</td>
<td>1.83</td>
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<td>Powhatan County</td>
<td>6,092</td>
<td>7,528</td>
<td>23.57</td>
<td>0.84</td>
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<td>Richmond City</td>
<td>152,044</td>
<td>173,089</td>
<td>13.84</td>
<td>0.49</td>
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<td><strong>Region Total</strong></td>
<td>550,711</td>
<td>691,474</td>
<td>25.56</td>
<td>0.91</td>
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</table>
Task 1.0 Socioeconomic Data Update and Analysis

Population/Employment Growth Density

2017 to 2045 Population/Employment Net Growth

- 1 Dot = 100
- Green: Population
- Red: Employment

Key:
- jurisdiction
- county
- waterbody
- interstate
- major road

Richmond Regional Transportation Planning Organization
SUPPORTED BY Planning Resources, Inc.
Task 1.0 Socioeconomic Data Update and Analysis

Regional Activity Centers
Task 1.1 Richmond/Tri-Cities Travel Demand Model Update

- RRTPO in its capacity as the MPO maintains a Regional Travel Demand Model (RTDM), the RTC Model.

- The RTC Model covers areas of whole of the Richmond Region (including rural study areas) and the Tri-Cities MPO.

- For the LRTP, the RTC model is updated to a base year of 2017 and a future year of 2045.

- The RTC model will be used to identify future needs for the highway and transit network.

- Potential Impact of Investment. Measure System Performance Measures: Volume/Capacity Ratio, Vehicles Miles Traveled, Vehicle Hours Traveled, Average Congested Speed by facility type, travel time improvements, transit ridership and accessibility improvements to major destinations.

- Impact of different land uses changes and different Investment priorities in Scenario Planning parallel process of the LRTP.
Task 1.1 Richmond/Tri-Cities Travel Demand Model Update
Task 1.2 Transportation Needs Assessment

Identify regional and local multimodal transportation Issues based on

- Congestion
- Safety issues
- Lack of interconnectivity
- Operational problems
- Maintenance Issues
- Inadequate roadway/transit capacity
- Accessibility
- Other issues (travel demand management, transportation system resiliency and economic development, etc.)

and Establish LRTP-specific Regional Transportation Needs
Task 1.2 Transportation Needs Assessment

Process Flow – Issue Identification to Project Prioritization

Task 1.2 Transportation Needs Assessment

- Issue Identification
- Geographic Clusters and groupings of Issues
- Needs Assessments
- Needs Specific to LRTP
- Universe of Projects
- Project Prioritization

Task 3.0 Planning

Task 4.0 Programming
Task 1.2 Transportation Needs Assessment

Transportation Issues Identification

- Staff Review of Regional and Local Plans and Studies

  - Highway
    - Major Transportation Studies
    - STARS Studies
    - IJRs/IMRs
    - RRTPO Congestion Management Process
    - RRTPO Bridge and Culvert Study (Ongoing)

  - Transit
    - Richmond Regional Transit Vision Plan Phases I and II
    - GRTC Transit Development Plan 2017

  - Bike –Ped
    - Richmond Regional Bike-Ped Plan 2020 (Ongoing)
    - Ashland To Petersburg Trail Study (Ongoing)
Task 1.2 Transportation Needs Assessment

- Park and Ride
  - Richmond Regional Park and Ride Study 2019

- Freight and Intermodal
  - Commerce Corridor Study
  - RMT/I-95 Study (Ongoing)

- Passenger & Freight Rail
  - DC2RVA
  - State Railway Plan 2017

- Other
  - VTrans- State Multimodal Plan (Ongoing)
  - DRPT Coordinated Human Service Mobility Plan 2019
  - Richmond-Crater Hazard Mitigation Plan
  - Richmond Region Comprehensive Economic Development Strategy (CEDS)
  - Locality Comprehensive/Transportation/Small Area Plan
  - Other Applicable Plans
### Task 1.2 Transportation Needs Assessment

#### Regional and Local Transportation Issues Inventory (Partial List based on Regional and Local Plans and Studies)

<table>
<thead>
<tr>
<th>SN</th>
<th>Issue/Deficiency Description</th>
<th>Category</th>
<th>Type</th>
<th>Transportation Mode</th>
<th>Jurisdiction</th>
<th>Source</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Missing Link Trail (connecting south side of Potterfield Bridge to 21st Street Tower, along the banks of the James River in the 1990s)</td>
<td>Interconnectivity</td>
<td>Construction</td>
<td>Active Transportation</td>
<td>Richmond</td>
<td>RTIPO Regional Bike-Ped Plan</td>
</tr>
<tr>
<td>2</td>
<td>Ashland to Petersburg Trail Study (regional)</td>
<td>Interconnectivity</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Regional</td>
<td>Ashland to Petersburg Trail Study</td>
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<td>3</td>
<td>Trolley Line Trail (regional)</td>
<td>Interconnectivity</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Regional</td>
<td>Ashland to Petersburg Trail Study</td>
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<tr>
<td>4</td>
<td>East Coast Greenway (regional)</td>
<td>Interconnectivity</td>
<td>Other</td>
<td>Active Transportation</td>
<td>Regional</td>
<td>Ashland to Petersburg Trail Study</td>
</tr>
<tr>
<td>5</td>
<td>Courthouse Road/Occohomba State Park (not detailed in park master plan; connects to the Chesterfield Government Courthouse Complex)</td>
<td>Interconnectivity</td>
<td>Other</td>
<td>Active Transportation</td>
<td>Chesterfield</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<td>6</td>
<td>James River Parkway (a historically identified in 1995 plan)</td>
<td>Interconnectivity</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Richmond</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<tr>
<td>7</td>
<td>Skipwith Road Bridge repair/Improvements (ADA)</td>
<td>Other</td>
<td>Other</td>
<td>Active Transportation</td>
<td>Henrico</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<td>8</td>
<td>Pamorntone Road/64 bridge repair/Improvements (ADA)</td>
<td>Other</td>
<td>Other</td>
<td>Active Transportation</td>
<td>Henrico</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<td>9</td>
<td>Appomattox River/100 Bridge repair/Improvements (ADA)</td>
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<td>Other</td>
<td>Active Transportation</td>
<td>Henrico</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<td>10</td>
<td>Appomattox River/100 Bridge repair/Improvements (ADA)</td>
<td>Other</td>
<td>Other</td>
<td>Active Transportation</td>
<td>Henrico</td>
<td>RTIPO Regional Bike-Ped Plan</td>
</tr>
<tr>
<td>11</td>
<td>Parham Road/Burng Road Bicycle and Pedestrian Study</td>
<td>Safety</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Regional</td>
<td>Ashland to Petersburg Trail Study</td>
</tr>
<tr>
<td>12</td>
<td>Gilles Creek Greenway West of Stone Searing along Gilles Creek to Oakwood Cemetery</td>
<td>Interconnectivity</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Richmond</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<tr>
<td>13</td>
<td>Nolde Road Trail/Warwick Road at Seven Plant Road</td>
<td>Interconnectivity</td>
<td>Construction</td>
<td>Active Transportation</td>
<td>Henrico</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<td>14</td>
<td>Charles City Courthouse multi-use trail</td>
<td>Safety</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Charles City</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<td>15</td>
<td>Scotts Addition Greenway/Southern Boulevard Trail behind Montgomery, along Science Museum</td>
<td>Interconnectivity</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Richmond</td>
<td>RTIPO Regional Bike-Ped Plan</td>
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<tr>
<td>16</td>
<td>Lakeside Community Trail/Lakeside and Hanover</td>
<td>Interconnectivity</td>
<td>Study</td>
<td>Active Transportation</td>
<td>Henrico</td>
<td>Ashland to Petersburg Trail Study</td>
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<td>17</td>
<td>Improved connection from Commerce Corridor to 1-66 east corridor and I-64/White Oak Avenue</td>
<td>Interconnectivity</td>
<td>Study</td>
<td>Freight and Intermodal</td>
<td>Multi-Jurisdiction</td>
<td>Commerce Corridor Study</td>
</tr>
</tbody>
</table>

#### Category

- **Accessibility**
- **Capacity Improvements**
- **Congestion**
- **Interconnectivity**
- **Operations/Maintenance**
- **Other**
- **Safety**

#### Type

- Construction
- Study
- Other
- Policy/Program
- Study
- Construction
- Other
- Study
- Study
- Study
- Study
- Study
- Study
- Study
- Study
- Study
- Other
- Park and Ride
- Passenger Rail
- System Resiliency
- Transit
- Travel Demand Management

#### Transportation Mode

- Active Transportation
- Freight and Intermodal
- Highway
- Multimodal
- Other
- Park and Ride
- Other
- Other
- Other
- Other
- Other
- Other
- Other
- Other

#### Jurisdiction

- Charles City
- Chesterfield
- Ashland
- Goochland
- Hanover
- Henrico
- New Kent
- Powhatan
- Richmond
- Multi-Jurisdiction
- Regionwide
Task 1.2 Transportation Needs Assessment

Transportation Issues Identification

Next Steps

- LRTP-AC Input and Vetting
- Citizen Input
- RTC Model Runs
  - Complete Issues Inventory
  - Geographic Clusters and Groupings of Issues
- Establish LRTP-Specific Needs
- Approval of Needs: March/April
Connect RVA 2045

Website
www.connectrva2045.org

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