Transportation Vision 2040

- Introduction
- Metropolitan Transportation Planning Process
- Public Participation
- Vision, Goals and Objectives
- Transportation Needs Assessment
- Financial Plan
- Draft 2040 Long Range Transportation Update
- FY 2015-2018 Transportation Improvement Program Draft Amendments
What is ARTS?

- Augusta Regional Transportation Study
- Federally designated bi-state MPO engaged in regional transportation planning
- Metropolitan Planning Organization (MPO) serving the Augusta – Richmond, GA – Aiken, SC Metropolitan Statistical Area
- Partners with GDOT, SCDOT, FHWA, FTA, EPA, Richmond and Columbia Counties GA; and Aiken and Edgefield Counties SC
- Programs USDOT federal-aid transportation dollars for multimodal transportation infrastructure
Long Range Transportation Plan

**Transportation Vision 2040**

- Minimum 20-year planning horizon
- Assess multimodal transportation needs
- Identify and program improvement projects
- Safety and security component
- Performance Measures
- Financial Plan / Financial Constraint
- Approved by ARTS Policy Committee
Define Vision, Goals, Objectives, and Existing Conditions

Public and Committee Input

Growth Indicators, System Performance and Future Land Development

Identify Needs

Current and Projected Transportation Deficiencies
- Traffic Safety
- Congestion
- Public Transit to Connect to Jobs and Livability
- Bike, Pedestrian Path and Sidewalks
- System Operations and Maintenance
- Age – Friendly Communities – Growing Elderly and Retiree Populations

Identify Transportation Improvement Strategies

Highway Capacity/Widening Projects
Intersection Operations/ITS
Complete Streets and Context Sensitive Design (Bike/Pedestrian & Sidewalks)
Public Transit Improvements & Regional Rideshare
Intermodal Freight
Transportation Vision 2040

Public Participation: What You Told Us?
Community Input and Survey Results
Public Participation

Public Notification

• Press releases sent to TV, Radio Stations, and Newspapers;
• Flyers (Spanish, Korean & Chinese) posted on buses and at transit stations, municipal buildings, and meeting venues;
• Yard signs posted at meeting venues;
• Bill drops (English and Spanish) sent to 91,000 water bill customers
• Social media: Revised ARTS web site, Facebook and Twitter.
Public Participation Summary:

- **Speaker Bureaus**
  - Presentations - 11
  - Attendees – 340

- **Community Meetings**
  - Presentations - 11
  - Attendees - 102
  - Goal Setting - 76
  - Meeting Evaluation - 62

- **Goal Setting** - 27 online visits

- **Travel Behavior Survey** - 785

- **August Public Transit Ridership Survey** - 599

- **Aiken Best Friends Express Ridership Survey** - 63
Pedestrian 11%
Transit 18%
Roads/Highways 19%
Rail 9%
Funding 21%
Other 22%

Questions/Inquiries Received:
In General

- Car, truck and van is primary mode of travel
- People are not satisfied with the current system
- Lack of alternative transportation options
Public Transit Survey

Augusta Public Transit Comments Received

- Increase Routes, 15%
- Frequency, Bus Schedule & Timing, 16%
- Extended Operations, 19%
- More Busses, 11%
- Weekend Operations, 13%
- General Complaint, 8%
- Other, 7%
- Bus Amenities, 5%
- Fare Cost & Payment, 2%
- Driver/Operator Issues, 4%
Public Transit Survey

Best Friend Express Comments Received

- Weekend Operations, 25%
- Increase Routes, 17%
- Frequency, Bus Schedule & Timing, 17%
- Extended Operations, 12%
- More Busses, 2%
- General Complaint, 17%
- Other, 4%
- Bus Amenities, 2%
- Driver/Operator Issues, 2%
- Fare Cost & Payment, 2%
Public Transit Survey

ARTS Public Transit (APT & BFE) Comments Received

- Frequency, Bus Schedule & Timing, 16%
- Increase Routes, 15%
- Extended Operations, 18%
- Weekend Operations, 14%
- More Busses, 11%
- General Complaint, 8%
- Bus Amenities, 5%
- Driver/Operator Issues, 4%
- Fare Cost & Payment, 2%
- Other, 7%
Transportation Vision 2040 Goals

Vision Statement Focus:

- Sustain Regional Economic Growth and Vitality
- Reduce Congestion
- Improve Traffic Safety
- Improve Regional Mobility For All Citizens
- Transportation Connections to Jobs/Training, Education, Healthcare, Recreation, Shopping, Entertainment and Tourists Attractions
- Transportation Services for Elderly and Retirees
Transportation Vision 2040 Goals

1. Congestion
Develop a multimodal transportation system that promotes strategies to reduce traffic congestion and delay.

2. Mobility, Accessibility and Connectivity
Develop a multimodal transportation system that promotes strategies that improve mobility and accessibility for motorized and non-motorized users of the transportation network including freight and goods movement.

3. Safety and Security
Develop a multimodal transportation system that increases the security of the transportation system and promotes strategies to reduce traffic crashes and injury outcomes.
Transportation Vision 2040 Goals

4. Maintenance, System Preservation and Operational Efficiency
Develop a transportation system that will allow mobility throughout the region by improving the physical condition and maintenance of the transportation network, and provide efficient and safe movement of persons and goods/freight.

5. Economic Vitality and Environmental Stewardship
Develop a transportation system that will enhance the economic, social, and environmental fabric of the region through coordinated transportation and planned land use.

6. Land Use and Transportation Integration
Promote efficient land use and development patterns to improve safety and economic vitality to meet existing and future multimodal transportation needs.
7. Financial Feasibility

Develop a transportation system that is financially and politically feasible and has broad support by increasing the safety and security of the transportation system for all users.
Transportation Vision 2040

ARTS Regional Growth Indicators
Population Projections Comparison

- Population 2006
- Population 2010
- Population 2035
- Population 2040

County

Aiken
Columbia
Edgefield
Richmond
Housing Units Projections Comparison

- Aiken
- Columbia
- Edgefield
- Richmond

Number of Housing Units

<table>
<thead>
<tr>
<th>County</th>
<th>Housing Units 2006</th>
<th>Housing Units 2010</th>
<th>Housing Units 2035</th>
<th>Housing Units 2040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aiken</td>
<td>60,000</td>
<td>65,000</td>
<td>70,000</td>
<td>75,000</td>
</tr>
<tr>
<td>Columbia</td>
<td>40,000</td>
<td>45,000</td>
<td>50,000</td>
<td>55,000</td>
</tr>
<tr>
<td>Edgefield</td>
<td>10,000</td>
<td>12,000</td>
<td>14,000</td>
<td>16,000</td>
</tr>
<tr>
<td>Richmond</td>
<td>80,000</td>
<td>85,000</td>
<td>90,000</td>
<td>95,000</td>
</tr>
</tbody>
</table>
Employment

Continued growth

- Richmond: 97,292 (2010), 145,410 (2040)
- Aiken: 54,146 (2010), 87,700 (2040)
- Columbia: 30,354 (2010), 44,861 (2040)
- Edgefield: 9,245 (2010), 13,000 (2040)
## Critical Transportation Issues

<table>
<thead>
<tr>
<th>Issue</th>
<th>Average Score</th>
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<tbody>
<tr>
<td>Local traffic congestion</td>
<td>3.93</td>
</tr>
<tr>
<td>Traffic safety issues</td>
<td>3.84</td>
</tr>
<tr>
<td>Lack of sidewalks</td>
<td>3.82</td>
</tr>
<tr>
<td>Lack of bike lanes</td>
<td>3.69</td>
</tr>
<tr>
<td>Lack of public transit services</td>
<td>3.50</td>
</tr>
<tr>
<td>Land use of transportation coordination</td>
<td>3.44</td>
</tr>
<tr>
<td>Lack of crosswalks</td>
<td>3.42</td>
</tr>
<tr>
<td>Lack of highways or road networks</td>
<td>3.09</td>
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</table>
## Transportation Needs Assessment

### Desired Transportation Priority Areas

<table>
<thead>
<tr>
<th>Priority Area</th>
<th>Average Score</th>
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<tbody>
<tr>
<td>Physical condition of major streets and highways</td>
<td>4.50</td>
</tr>
<tr>
<td>Flow of traffic on major streets during morning or afternoon peak times</td>
<td>4.46</td>
</tr>
<tr>
<td>Safety controls on major streets &amp; railroad crossings</td>
<td>4.28</td>
</tr>
<tr>
<td>Access to sidewalks and crosswalk areas</td>
<td>4.17</td>
</tr>
<tr>
<td>Neighborhood traffic safety</td>
<td>4.12</td>
</tr>
<tr>
<td>Availability of public transit services</td>
<td>3.98</td>
</tr>
<tr>
<td>Day-to-day predictability of your commute travel time (Less traffic congestion)</td>
<td>3.94</td>
</tr>
<tr>
<td>Ability to use another mode of transportation (Multi Modal Mobility)</td>
<td>3.85</td>
</tr>
<tr>
<td>Availability of bike lanes and paths</td>
<td>3.79</td>
</tr>
<tr>
<td>Time it takes you to commute from your home to place of employment</td>
<td>3.79</td>
</tr>
<tr>
<td>Availability of on-street Parking at your place of employment</td>
<td>3.21</td>
</tr>
</tbody>
</table>
Roadway Level of Service

- **FREE FLOW**
  - LOS A

- **REASONABLY FREE FLOW**
  - LOS B

- **STABLE FLOW**
  - LOS C

- **APPROACHING UNSTABLE FLOW**
  - LOS D

- **UNSTABLE FLOW**
  - LOS E

- **BREAKDOWN FLOW**
  - LOS F
Transportation Vision 2040

Level of Service Results

Edgefield

2% - 3% improvements in each LOS

Large decline in LOS w/o improvements

VMT (in millions)

1st (2010 Base Year)

2nd (2040 Do-Nothing)

7th (Financially Constrained)

1%  4%  12%

6%  16%  26%

3%  14%  24%

82%  51%  58%

Transportation Vision 2040
Capacity, Level of Service and Congestion

- Implement new capacity projects on roadways that are exhibiting poor Level of Service and are Seriously Congested.

- Monitor congestion levels and implement congestion mitigation measures in South Augusta and Forth Gordon as it continues to develop.

- Continued implementation of ATMS and congestion mitigation strategies on Seriously Congested roadways identified in the annual congestion management process surveys.
Traffic Safety Improvements

- Implement safety improvements at high crash intersections and non-intersection locations.

- Implement operational and access management improvements on corridors with extensive amounts of driveways, such as Washington Road.
Transportation Needs Assessment

Bicycle and Pedestrian
- Complete implementation of 2012 Bicycle and Pedestrian plan.
- Focus on paths and trails with regional connectivity.
- Advocate and implement bicycle and pedestrian facilities on roadway projects.
- Increase education of all road users of roadway safety.
- Continued maintenance of existing facilities.

City of North Augusta - Development Code Article 14.4 - Street Type and Design

Mandates sidewalks on all roads Local to Arterial
Freight

- Many large state projects for freight have been completed.
- Continue to focus on corridors with high freight activity, especially near industrial areas, such as I-20.
- Implement capacity improvements on major roadways and freight corridors, including I-20, US 78, and US 278
Transportation Improvement Strategies

- Highway and road capacity improvements – road widening
- Traffic Operational Improvement
- Incident Management
- Traffic Calming
- Complete Streets
- Context Sensitive Design
- Access Management
- Bicycle and Pedestrian
- Land Use and Transportation
- Age-Friendly Transportation & Community Health
- Transportation Demand Management (TDM)
- Public Transit
Financial Plan

2015-2018 Transportation Improvement Program (Tier 1)
  - Programmed projects

2019-2029 Long Range Projects (Tier 2)
  - Fiscally constrained
  - Balance of multimodal projects

2030-2040 Long Range Projects (Tier 3)
  - Fiscally constrained
  - Balance of multimodal projects

Unfunded Priority Projects
  - Large Intersection Improvements
  - Large Interstate Improvements
  - “Wish List”
2040 Financial Plan

$1.58 billion in improvements

- **Widening** $862,493,668 55%
- **Bridge** $69,925,595 4%
- **New Facilities and Extensions** $11,975,799 1%
- **Operational, Median, and Corridor Improvements** $211,895,035 13%
- **Intersection and Safety** $40,571,480 2%
- **Bicycle and Pedestrian** $58,019,759 4%
- **Railroad Crossing** $82,306 <1%
- **Public Transit** $139,462,934 9%
- **ATMS and ITS** $16,956,669 1%
- **Park and Ride** $84,713 <1%
- **Maintenance and Operations** $167,966,361 11%

Transportation Vision 2040
## Georgia Projects Summary

### Expenditures by Type

<table>
<thead>
<tr>
<th>Expenditures by Type</th>
<th>Tier 1</th>
<th>Tier 2</th>
<th>Tier 3</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Widening</td>
<td>$52,597,221</td>
<td>$331,940,486</td>
<td>$353,162,427</td>
<td>$737,700,134</td>
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<tr>
<td>Bridge</td>
<td>$2,715,640</td>
<td>$29,132,043</td>
<td>$2,580,575</td>
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<tr>
<td>New Facilities and Extensions</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
<td>$0</td>
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<tr>
<td>Operational, Median, and Corridor Improvements</td>
<td>$16,780,340</td>
<td>$77,608,330</td>
<td>$85,056,150</td>
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<td>Intersection and Safety</td>
<td>$6,292,127</td>
<td>$10,562,523</td>
<td>$0</td>
<td>$16,854,650</td>
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<tr>
<td>Bicycle and Pedestrian</td>
<td>$2,101,030</td>
<td>$20,976,023</td>
<td>$20,096,430</td>
<td>$43,173,483</td>
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<tr>
<td>Railroad Crossing</td>
<td>$0</td>
<td>$53,249</td>
<td>$0</td>
<td>$53,249</td>
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<tr>
<td>Public Transit</td>
<td>$10,829,818</td>
<td>$34,655,222</td>
<td>$38,663,735</td>
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<td>Park and Ride</td>
<td>$0</td>
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<td>$84,713</td>
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<td>ATMS and ITS</td>
<td>$0</td>
<td>$4,953,158</td>
<td>$12,003,510</td>
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<td>Maintenance and Operations</td>
<td>$37,764,500</td>
<td>$56,457,630</td>
<td>$68,773,231</td>
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<td><strong>Total</strong></td>
<td>$129,080,676</td>
<td>$566,338,664</td>
<td>$580,420,771</td>
<td>$1,275,840,111</td>
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## South Carolina Projects Summary

<table>
<thead>
<tr>
<th>Expenditures by Type</th>
<th>Tier 1</th>
<th>Tier 2</th>
<th>Tier 3</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Widening</td>
<td>$21,265,000</td>
<td>$34,646,705</td>
<td>$68,277,859</td>
<td>$124,189,563</td>
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<td>Bridge</td>
<td>$8,421,000</td>
<td>$27,076,336</td>
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<td>$35,497,336</td>
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<tr>
<td>New Facilities and Extensions</td>
<td>0.0%</td>
<td>0.0%</td>
<td>$11,975,799</td>
<td>$11,975,799</td>
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<tr>
<td>Operational, Median, and Corridor</td>
<td>$18,920,000</td>
<td>$17,687,541</td>
<td>$2,694,280</td>
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<td>Intersection and Safety</td>
<td>$5,677,000</td>
<td>$4,701,043</td>
<td>$13,338,787</td>
<td>$23,716,831</td>
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<tr>
<td>Bicycle and Pedestrian</td>
<td>$1,205,760</td>
<td>$2,881,248</td>
<td>$10,759,268</td>
<td>$14,846,276</td>
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<td>Railroad Crossing</td>
<td>0.0%</td>
<td>$29,057</td>
<td>0.0%</td>
<td>$29,057</td>
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<tr>
<td>Public Transit</td>
<td>$9,589,000</td>
<td>$21,612,631</td>
<td>$24,112,528</td>
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<tr>
<td>Park and Ride</td>
<td>0.0%</td>
<td>0.0%</td>
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<td>$0</td>
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<tr>
<td>ATMS and ITS</td>
<td>0.0%</td>
<td>0.0%</td>
<td>0.0%</td>
<td>$0</td>
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<tr>
<td>Maintenance and Operations</td>
<td>$4,971,000</td>
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<td>$4,971,000</td>
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<tr>
<td><strong>Total</strong></td>
<td>$70,048,760</td>
<td>$108,634,562</td>
<td>$131,158,521</td>
<td>$309,841,843</td>
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How You Can Stay Informed

• Invite ARTS staff to your neighborhood association meeting, civic function, church or other events
• Visit the ARTS website: www.augustaga.gov/2120/Transportation-Vision-2040
• Participate in the online public forum:
  Public Comment Period
  July 22 – August 23, 2015

Contact:
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