Georgia State Rail Plan
Introduction
Public Meeting Presentation

August 12-14, 2014
Dalton, Atlanta, and Valdosta
Presentation Outline

• What is a State Rail Plan?
• Outreach activities
• Existing rail system
• Trends and forecasts
• Needs and opportunities
Presentation Outline (cont.)

• Passenger proposals
• Freight proposals
• Next steps
• Your comments
  – Modify proposed projects?
  – Suggest policy recommendations?
What Is a State Rail Plan?

• Articulates passenger and freight rail vision for a state
  – Vision needs to be grounded in what state stakeholders need and want from their systems
• Specifies long-term investment strategies, program of improvements
• Identifies benefits of improvements
  – Benefits used to prioritize investments
Draft Rail Vision

A safe and energy efficient state rail system that enables the economic wellbeing of Georgians by expanding access and enhancing mobility for people and goods in an environmentally sustainable manner.
Draft Rail Goals

• Enhance safety and security
• Provide reliable/enhanced passenger system
• Develop energy efficient and environmentally sustainable rail system
• Preserve and improve existing infrastructure
• Enhance economic development and competitiveness
• Promote and expand intermodal connectivity
Outreach Activities

- Public meetings in April and August
- On-line survey on GDOT website
- Outreach to railroads
- Stakeholder Workshop in May
- Environmental Justice interviews in May and June
- Rail shipper interviews in June and July
- Quarterly Steering Committee meetings
Stakeholder Feedback

- Preserve strategic rights-of-way
- Leverage federal and internal funding sources
- Promote and enhance safety
- Expand rail planning with other state and local agencies and with neighboring states
- Expand data collection on hazmat, crossing hazards, and traffic flows
Stakeholder Feedback (cont.)

- Develop a passenger rail marketing program
- Improve and expand intercity passenger rail
- Update commuter rail plan, emphasizing an incremental approach
- Encourage goods movement by rail, while maintaining environmental sustainability
Existing Rail System

4,651 miles
CSXT

1,567 miles
NS

2,064 miles
CSXT and NS Major Yards

11 major yards and intermodal facilities
Short Line Railroads

29 lines and
529 miles
Amtrak
4 services
5 stations
Tourist Railroads
(8 excursions and museums)
Port-Rail Connections

- Port of Savannah
- Port of Brunswick
- Port of Columbus
- Port of Bainbridge
- Cordele Intermodal Center

Source: Mi-Jack Products, Inc., product web site
Train Accidents in Georgia

- 46 accidents in 2013, compared to 90 in 2004
- 2004-2013 breakout:

### Train Accident Type
- Collision: 69%
- Derailment: 13%
- Other: 18%

### Train Accident Locations
- Mainline Tracks: 28%
- Yard Tracks: 72%

### Train Accident Causes
- Human: 42%
- Track: 29%
- Equipment: 14%
- Misc.: 10%
- Signals: 5%

Source: FRA Accident Database
## Rail Freight Flows

### Rail Movements by Direction (2011)

<table>
<thead>
<tr>
<th>Direction</th>
<th>Tons</th>
<th>Units</th>
<th>Value (in millions)</th>
<th>Average Value/Ton</th>
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<tbody>
<tr>
<td></td>
<td>Amount</td>
<td>Percent</td>
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<td>Percent</td>
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<tr>
<td>Outbound</td>
<td>24,058,321</td>
<td>12.7%</td>
<td>745,958</td>
<td>18.9%</td>
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<tr>
<td>Inbound</td>
<td>65,070,632</td>
<td>34.4%</td>
<td>1,264,359</td>
<td>32.1%</td>
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<tr>
<td>Intrastate</td>
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<td>206,953</td>
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<td>Through</td>
<td>90,620,375</td>
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<td>1,726,851</td>
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<td>Total</td>
<td>189,205,659</td>
<td>100.0%</td>
<td>3,944,121</td>
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</tbody>
</table>

*Source: prepared by CDM Smith, based on the STB Waybill Sample data for 2011*
In Tons, Units and Value

- Tons
- Units
- Value

Outbound | Inbound | Intra | Through
---|---|---|---
5.0% | 12.7% | 34.4% | 47.9%
5.2% | 43.8% | 32.1% | 18.9%
8.1% | 50.0% | 27.4% | 18.5%

Rail, in 2011

- Through (47.0%)
- Intra (5.0%)
- Inbound (34.4%)
- Outbound (12.7%)
Inbound Tons
Rail Economic Impacts in Georgia

- **Employment:** 672,630 jobs, combined direct employment, shipper and rail visitor impacts
- **Income:** $32.2 billion earned by these total impacted employees
- **Value-Added:** $54.1 billion, combined value added impact

Source: CDM Smith using IMPLAN
Georgia Trends and Forecasts

- **Population:** 10.0 M in 2013 to 14.9 M in 2040
- **Employment:** 4.1 M in 2014 to 5.6 M 2040
- **Personal income:** $38,179 per capita 2013, below the national average of $44,543
- **Industrial outlook:** Freight rail traffic will increase 14.7% from 2011 to 2040
- **Passenger outlook:** passenger traffic will increase 69.6% from 2013 to 2040

Source: US Census, Georgia Department of Labor, US Bureau of Economic Analysis, CDM Smith
## Freight Rail Forecast

### Rail Tonnage Forecast Summary (2011-2040)

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<thead>
<tr>
<th>Direction</th>
<th>2011</th>
<th>Percent</th>
<th>2040</th>
<th>Percent</th>
<th>Change</th>
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<td>25,305,097</td>
<td>11.7%</td>
<td>1,246,776</td>
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<td>34.4%</td>
<td>51,086,413</td>
<td>23.5%</td>
<td>-13,984,219</td>
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<td>Intrastate</td>
<td>9,456,331</td>
<td>5.0%</td>
<td>9,946,387</td>
<td>4.6%</td>
<td>490,056</td>
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<td>Through</td>
<td>90,620,375</td>
<td>47.9%</td>
<td>130,719,032</td>
<td>60.2%</td>
<td>40,098,657</td>
<td>44.2%</td>
<td>1.3%</td>
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<td><strong>Total</strong></td>
<td>189,205,659</td>
<td>100.0%</td>
<td>217,056,929</td>
<td>100.0%</td>
<td>27,851,270</td>
<td>14.7%</td>
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Source: CDM Smith use of FAFv3.5 forecasts and year 2012 WS
### Intercity Ridership Forecast in Georgia by Station

<table>
<thead>
<tr>
<th>Station</th>
<th>2013</th>
<th>2015</th>
<th>2030</th>
<th>2040</th>
<th>Growth / Year</th>
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<tr>
<td>Toccoa</td>
<td>4,266</td>
<td>4,438</td>
<td>6,040</td>
<td>7,418</td>
<td>2.10%</td>
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<td>Gainesville</td>
<td>6,464</td>
<td>6,725</td>
<td>9,768</td>
<td>12,528</td>
<td>2.50%</td>
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<td>Atlanta</td>
<td>99,005</td>
<td>103,005</td>
<td>142,156</td>
<td>176,212</td>
<td>2.20%</td>
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<td>Savannah</td>
<td>71,658</td>
<td>74,553</td>
<td>96,352</td>
<td>114,320</td>
<td>1.70%</td>
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<td>Jesup</td>
<td>10,692</td>
<td>11,124</td>
<td>14,192</td>
<td>16,693</td>
<td>1.70%</td>
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<td>Total</td>
<td>194,098</td>
<td>201,860</td>
<td>270,538</td>
<td>329,211</td>
<td>1.98%</td>
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**Source:** CDM Smith using state population forecasts by county
Rail Line Congestion

• Potential found for congestion on four CSXT subdivisions
  – Lines running from Alabama northeast to Atlanta and southeast to Florida
• Recurring congestion at Howell Junction

Source: CDM Smith Analysis
Needs and Opportunities

• Priority freight corridors
• Capacity constraints
• Positive Train Control
• Short line needs
• Port-rail needs
• Amtrak station needs
• Enhanced passenger rail
Norfolk Southern’s Crescent Corridor

Source: Norfolk Southern Railway
Short Lines Upgrade Needs
Amtrak Station Needs
Faster Trains Linking Megaregions
Passenger Rail Proposals: Intercity routes
Passenger Rail Proposals: Intercity routes with feeder routes
Potential Commuter Rail Routes
Tourist Railroads

• Must position themselves for the future
  – Explain what railroads meant and their impact
  – Provide for economic development
  – Introduce youth to the railroad industry
  – Investigate partnerships with CSXT and NS to:
    • Develop potential new hires for the Class Is
    • Provide opportunities to enhance rail safety and education
Freight Rail Proposals

• **CSXT Projects**: multiple capacity projects on 4 subdivisions

• **NS Projects**: TBD

• **Regional, detailed rail capacity study**: address bottlenecks and congestion

• **Short line upgrades**: track and bridges

• **Port-rail upgrades**: leads, storage track, etc.

• **Crossing improvements**: 35 projects by 2015
Comments and Questions?

- Modifications to passenger and freight rail proposed projects?
- Suggestions for policy recommendations?
# Next Steps

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Thank You!

- **Questions?** We’re here till 7 PM
- **Comments?** Comment cards available, or post comments to easel
- **Latest details:** Please follow the progress of the Plan at:

Rail Study Contacts

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  – E-mail: foxjc@cdmsmith.com